

Cláudio Teixeira

✉ contact@claudioteixeira.com

☎ +351 914 659 039

🌐 linkedin.com/in/cl%C3%A1udio-teixeira-138a9a3a

🔗 <https://www.claudioteixeira.com>

Summary

Senior Full Stack Web Software Engineer (MsC)

Hello

I can help **you** and **your company** on **all** stages of your web or mobile product development process (state of the art industry standards) from Frontend, Backend, Message Queues, CI/CD Operations, Cloud Infrastructure provisioning and management, Telemetry, Security, Compliance and Quality Assurance.

I have 6 years experience in helping startups and companies (from 5 up to 50 employees) building and leveraging their products across the world.

Some of my roles and responsibilities:

Specialised in **all stages** of **web product development**: planning, programming, verification, packaging, releasing, infrastructure provisioning and orchestration, monitoring, scalability, availability, compliance, security, integration and maintenance for commercial large scale web applications

- CTO
- Cloud Operations Engineer
- Tech Lead
- Team Manager
- Senior Front-end Developer (JavaScript/Typescript)
- Senior Full Stack Developer (JavaScript/Typescript)

Industries (complex web and mobile) applications:

- Online Gaming and Gambling (Sportsbook)
- Online Casinos
- Dynamic Media and Advertisement
- Software as a Service (SaaS) tools

Passionate about:

Helping **startups** across all stages of web product development , deployment and operations , leading and managing development teams, architecting and building their large scale web applications.

Some of my skills:

- **Backend**: Node.js (ExpressJS, Strongloop, Restify, Hapi...), PM2 Process Manager
- **Cloud**: Amazon Web Services, Google Cloud Platform, Digital Ocean
- **AWS**: CloudFront, APIGateway, Signing Endpoints on APIGateway, IAM Authorizations, Cognito, Lambda, Lambda@Edge, S3, Route53, IAM, EC2, EKS, DynamoDB, ELBs Load Balancers,..
- **Devops**: Kubernetes Cluster Provisioning and Deployment, Docker Swarm, DNS, SSL, CI/CD Pipelines, Helm for K8s ,Kubernetes Operations
- **Serverless**: AWS Lambda, Lambda@Edge (via JavaScript), Serverless Framework, Static Lambda HTML Pages
- **Front-end**: Angular 7, Service Workers, VueJS, Backbone, MarionetteJS, React > 16, Gatsby, RxJS, MustacheJS, WebPack, Grunt, Gulp, MaterializeCSS, Progressive Web Apps, Mobile Web optimised pages, Schema.org, SEO, within others..
- **Software Paradigms**: Imperative, Declarative (Functional Programming), Reactive Programming
- **APM**: NewRelic

- **GIT:** Git Hooks, Bare clones, PRs, GitFlow, GitHub, BitBucket..
- **Linux:** Bash Scripting and Networking for DevOps/Assistive Tasks, Pipes, SSH
- **Message Queues:** FIFO Queues, ALOD Queues, RabbitMQ, AMQPcloud (managed RabbitMQ), AWS SQS
- **Payment Gateways:** PayPal, Buckaroo
- **Test Frameworks:** Protractor, Jest
- **Query Languages:** GraphQL, REST, SQL
- **Infrastructure Telemetry and Forensics:** Sysdig, Sysdig Cloud, K8s Metrics Server API
- **CI/CD:** Drone (container based), Jenkins
- **Database NoSQL:** MongoDBCloud, MLab, Big Data (250GB+), MongoDB performance queries, indexing, complex aggregations, MongoDB bare-metal, MLab, MongoDBAtlas, Studio3T
- **BigData:** Large collections 250GB+, Performance queries, indexing, complex aggregations, backups, migrations, updates, full backup strategies
- **Software Engineering:** UML Diagrams (State, Sequence, Class), FR's, NFR's Sheets
- **Domains/DNS:** DNS GoDaddy, SimpleDns, Route53
- **Static Hosting:** Hostinger, Heroku, DigitalOcean, S3
- **Logging:** Rsyslog (distributed log processing), LogEntries
- **Documentation:** Swagger, OpenAPI 3.0
- **Languages:** TypeScript, JSX, JavaScript, Python, Bash
- **Web Servers:** NGiNX, LightTPD
- **Networking:** Reverse Proxies, SSL Certificates Installation and Renewal, DNS Configurations (A, CNAMEs, etc), K8s Services (via NodePort and more advanced configs)
- **Mail and Marketing:** Mailchimp
- **Docker/Containers:** Supervisor Process Manager, Dumb Init, Custom Images
- **Security:** Tokens management, CORS Policies, Origin Whitelisting/Blacklisting, Requests Limiters, K8s ConfigMaps, Environment Variables for secrets, Secrets ofuscation, Password rotation policies, Public registry package inspection (eg. NPM), JWT, Passport

Community:

Active researcher and community member (**meet-ups in London and Lisbon**), international software conferences) always up to date with latest trends, technologies libraries and frameworks in the amazing JavaScript and Cloud world.

Active follower of TC39 international ECMA committee up to date with ECMA262 proposals and drafts updates and **AWS**, **Google Cloud**, **Microsoft Azure** and **Digital Ocean** newsletters and product release notes tracking.

TypeScript and ESNext evangelist.

<https://www.claudoteixeira.com>

<https://www.coderecipes.org>

Experience



CTO / Senior Full Stack Engineer

Oct 2017- Present

Bannerwise

CTO and Lead Developer at Bannerwise for almost 2 years.

Some of the tasks I've **helped** Bannerwise with:

- Created and configured several Kubernetes Clusters in multiple edge locations to allow a stable and easy to manage micro services network (lately control planes managed by EKS)
- Added Horizontal and Vertical Scalling Policies for Pods and Pool Workers
- Created and configured NGiNX Ingress Routers over the Kubernetes Clusters
- Created Backend TypeScript **Enterprise Grade** Node.js backend boilerplates which are used across most of the companies Node.js APIs
- Added Swagger OpenAPI 3.0 Support to several API's
- Coded new JavaScript Micro Services and Scripts (called from bash scripts inside Rsyslog and other low level UNIX programs)

- Created several Serverless API's, static frontends and functions on AWS (via serverless framework and ad-hoc)
- Managed all Cloud Infrastructure and Operations on AWS,
- Enhanced the CI and CD pipelines on the development flow
- Introduced TypeScript as Standard for all front-end, backend and operation JavaScript apps
- Deployed multiple MongoDB based databases across multiple SaSS (Atlas and Mlab)
- Created API's to work over big loads of data
- Designed Big Data Aggregations and Queries,
- Created real-time data mirror services for impressions and clicks tracking
- Leveraged uptime of all services to 99.9%,
- Created TypeScript Unit and Integration Tests boilerplates on Backend Services
- Introduced and managed multiple queues on RabbitMQ and AWS SQS
- Managed Dockerhub
- Managed GIT Web Hooks for CI/CD and Permissions
- Dockerized all company services (small and large)
- Created database maintenance scripts
- Performed seamless switch over of services between Kubernetes clusters
- Created multiple Decorators and Middlewares for Express.js to be used across micro services
- Introduced and created boilerplate and apps based on React 16 with Hooks and Component Functions for new smaller front end pages and web apps
- Introduced Angular 7 for the most complex frontend apps
- Responsible for the recruitment of new JavaScript developers (interviews, exercises and final word)



JavaScript Senior/Lead Engineer

2014 - Sep 2017

FSB

3 years 9 months

Lead Senior Front-End and JavaScript Engineer for almost 4 years.

Some of the tasks I've **helped** FSB with:

- Swapped the old front-end for a fresh, faster and modern new one within 2 months for the only customer that the company had back then
- Created Boilerplate for the frontend skeleton of 40 online casinos (based on Backbone.js and RxJS)
- Crated hundreds of RxJS modules to support all sports betting views (racing, football, hockey, etc..)
- Managed a solid team of 10 front-end developers
- Created a new XS frontend framework for Opera Mini for our African Partners
- Responsible for the architecting, maintaining, testing the several scalable web gambling and casino web and mobile JavaScript applications across multiple clients.
- Introduced i18n on all the frontend products
- Deployed up to 40 on-line international casinos
- Introduced and architected multi language and multi currency into the casinos and gambling websites
- Created CI/CD pipelines for the frontend.
- Architected an efficient and seamless WhiteLabel structure on the frontend which allowed plugins and ad-hoc solutions to be easily crafted for multiple web and mobile based platforms.
- Created a mono-repo component based architecture for the frontends (re-usable components) via GitHub
- Introduced ES6 concepts and kept ES6 as a standard for all the frontend code
- Introduced Unit and E2E Testing and leveraged it to the CI/CD pipeline
- Integrated Multiple casino game providers into the front-end products
- Integrated multiple payment providers into the front-end products
- Responsible for the recruitment of new JavaScript developers (interviews, exercises and final word)
- Created timing and fraud control algorithms for the games and sportsbook betslip
- Managed and introduced dynamic SEO tags and best practices
- Created a complex backoffice solution based on ExtJS 6 (+100 modules) to allow traders to manage prices and statistic operations over betting data
- Created lighter mobile version of the main front-end stack to allow faster rendering and download on the mobile devices

- Created a front-end CMS to allow drag and drop of components into the multiple pages of the casinos and sportsbook



Research Assistant (PaaS - Platform as a Service / Software Engineering)

May 2013 - Feb 2014

M-ITI

10 months

Software Researcher at M-ITI for 2 years.

Some of the tasks I've **helped** M-ITI with:

- Created research flow and path to the project 'Creating a Framework to Measure Usability and Learnability of PaaS Web Page Creation Software Tools' (1 year deadline for papers publishing)
- Role Main Researcher
- Created R&D maps and performed R&D on both industry and literature
- Created User tests for an app to created web sites easily
- User tests coordinator
- User tests coach
- Tests Scenarios Creator (simple web shop)
- Statistical Analysis of datasets (SPSS)
- Main Literature reviewer
- Articles Writer
- PaaS Web Creation tools selector (based on the architecture and generated code)
- PaaS Web Creation tools tester and evaluator
- Eye-tracking and telemetry tests coordinator



Full Stack Web Developer

Aug 2013 - Dec 2013

zerolnfinito Psicologia

5 months

Full Stack Developer for 1 year.

Some of the tasks I've **helped** zerolnfinito with:

- Created a fully featured web application to support the work of on-field psychologists and a simple public static website. The web application provides on-field support for registering different medical activities (on-field appointments and phone calls), creating, viewing and editing patient's records, viewing and editing calendar, controlling volunteers, within others. The applications are used on a daily-basis.
- Consultant (with the StakeHolders), Software Engineer and Developer
- State-of-the-art front-end technology evaluator and selector
- Back-end (MySQL) database designer and developer
- Backend Code-Igniter based on PHP
- Front-end framework (CodeIgniter) developer
- Created a frontend based on Angular.js
- Integrated authentication module via Google (oAuth2).
- Deployed and customised of a WordPress CMS instance to serve as a public website for the organisation.
- Selected of a hosting company (Digital Ocean)
- Configured and set up of Apache configurations (CodeIgniter), subdomains and e-mail accounts for both the frontends and backend



CTO / Android Developer

Apr 2013 - Jun 2013

LocalEyes

3 months

Android Developer for 1 year.

Some of the tasks I've **helped** LocalEyes with:

- Created the start-up company travelling concept
- Applied to a national start-up financing contest (up to 200 nationwide applicants).
- Coordinated the Project
- Planned the Project
- Handled and managed Sponsorships
- Recruited and interviewed team members

- Designed the media presentations/pitches
- Designed the Android Application UI
- Developed and integrated the Web service API (JSON Http calls, AsyncTasks)
- Created a Sliding Menu
- Created an Action Bar
- Added Retro-compatibility code
- Created unit and UAT tests (Android 2.3+)
- Designed and developed the Navigation Flow

Awarded with a Honourable Mention 5th place in the finals of the contest.

Project later suspended due to financial issues.



Android Developer

Feb 2013 - Mar 2013

Fuel Meter

2 months

Android Developer for 1 year.

Some of the tasks I've **helped** FuelMeter with:

- Created a multi-device compatible real-time car dashboard real-time fuel meter Android application for the Google Play Store (3 months deadline).
- Deployed the app to the Google Play Store
- Designed the Application UI
- Created Real-time GPS components
- Developed the ActionBar developer
- Developed and Designed the Navigation Flow
- Tested and introduced retro-compatibility scripts (Android 2.3+).



Front-end Developer / GIS Developer

Nov 2012 - Feb 2013

CrisisTracker OpenSource Project (IBM)

4 months

Front-end and Maps developer for 1 year.

Some of the tasks I've **helped** CrisisTracker and IBM with:

- Created the first version of the front-end version of Crisis Tracker (automated mining of twitter to report overview maps of real-time emergency scenarios faster than local media and official entities).
- Made Version 1.0 Open-source available at GitHub. *later Adopted and Modified by IBM (Australia)
- Created a new ExtJS4 Version Prototype of the main web app
- Front-end Technology Consultant
- Main Front-end tester and Developer,
- GIS Developer / GIS Architectet
- Selected Web map technology (Open Layers)
- Designed and developed the Web map interaction
- Created a PHP based API
- Developed all JavaScript, HTML and CSS of the front-end
- Presented the product in an International Software Conference (ISCRAM) in Germany

Version 2.0 created on Qatar (Technology Institute)

<http://scd1.qcri.org/crisistracker/>



Research Assistant / Software Engineer

Nov 2011 - Dec 2012

MITI / IBM

1 year 2 months

Front-end and Maps developer for 1 year.

Some of the tasks I've **helped** M-ITI with:

- Created a real-time web application prototype to active support both volunteers and emergency organizations under emergency scenarios. (1 year deadline).
- Created and architected the deployment and packaging of the app

- Architected the multi-deployment feature of the CD pipeline which allowed creation of new emergency deployments, exploring current on-going deployments worldwide
- Created and designed real-time synchronization between all deployed clients and logged in users,
- Created a Common wiki repository for open access by any of the deployments (actually was this was the distributed database of this project)
- Created the functionality to create field activities (needs and responses), changing of field activities status, designing reserved field areas, creating geo-fence delimiters, worldwide location searching, volunteers contact information visualization, registering and logging in of volunteers, editing deployment settings.
- Donated the prototype and some support to the Stand By Task Force NGO (with instructions and documentation).
- Main Researcher
- Project presenter
- Prototype Developer
- Main Emergency Literature reviewer
- ISCRAM 13 Germany Emergency Software conference full-research paper and prototype demos presenter, emergency companies partnership and collaboration coordinator
- Created Prototype concept
- Create Software Requirements document
- Selected Technology, tested and developed of the front end (jQuery, HTML, CSS, custom MVC-based JavaScript framework development (Manager, Gateway, View {ScreenDrawer, ScreenEvents), map (Open Layers) and back-end (MySQL, Object Oriented PHP Webservices) of the prototype
- Developed real-time components on the API and frontend (Comet)
- Architected a multi-layer architecture (front-end physically separated from back-end
- Deployed Wiki into a different physical location



Military Communications Engineer (NATO)

Feb 2006 - Feb 2012

Major General State of Armed Forces (Portugal)

6 years 1 month

Role: Military Communications Operator

Responsibilities: TETRA and VHF Radio Communications, Encoding and Decoding Military Messages on proprietary software systems, IT support, NATO Message Traffic Routing, Military Messages Authoring (Official Security Level Accreditation: NATO Secret)



CTO / Android Developer

Nov 2011 - Jan 2012

EcoRide (Startup)

3 months

Project: Creating a start-up company (based on an Android application prototype) travelling concept on a national start-up financing contest (up to 150 nationwide applicants).

Madeira Transports makes it ease to catch a cab, check cable car timetables and contacts, check the bus timetables from around the island and instantly understand the bus routes. Additionally it allows users to plan car journeys and compare the costs against public transportation alternatives.

Awarded with a Honourable Mention 10th place in the finals of the contest. Project Suspended due to protocol partnership issues.

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Role: CEO, Android UI Designer, Android Developer

Responsibilities:

1 (CEO) – Project coordination, Project Planning and Sponsorships, Team recruitment and interviewing, Media presentations designer, Cooperation protocol coordinator (up to 10 public and private companies including Airport and Maritime Authorities)

2 (Android Developer and UI Designer) - Application UI designer, Action Bar developer (), retro-compatibility developer and tester(Android 2.3+), Navigation Flow designer developer, GPS component creation, Bus component navigation flow and interaction designer and developer.

Education



M-ITI

2011 - 2013

MsC, Computer Software Engineering, 18 EQF7

Madeira Interactive Technologies Institute - University of Madeira, Funchal (Portugal) Final Score: 18 (0-20)



University of Madeira

2007 - 2011

BsC, Computer Science, 16 EQF7

Competence Centre of Exact Sciences and Engineering (CCESE) - University of Madeira, Funchal (Portugal)

Final Score: 16 (0-20)



Cristóvão Colombo

2010 - 2010

Professional Trainer, Professional Training

Certified Technical Teacher License



Academia de Línguas da Madeira

1998 - 2006

English Student, 2^o Level Adults

Solid groundings on English



Escola Secundária Francisco Franco

2000 - 2004

Electrical and Electronics Technician, Electrical and Electronics

Skills



Amazon Web Services (AWS) • Digital Ocean • Google Cloud Platform (GCP) • TypeScript • Node.js • Progressive Web Apps • Angular • React.js • Message Queues • Kubernetes

Certifications

Best Student Award (MsC Software Engineering) • Prof. Evangelos Karapanos

Honors & Awards

Honorable Mention (Startup Accelerators) • Vodafone / CML • Jul 2013

Received an Honorable Mention for 5th place on a Portuguese **Startup** contest.

- 1st Phase - Selected for Finals (15 startup projects selected from a total of 250 participants)
- 2nd Phase - Award for 5th Place (include Go To Market support from Vodafone Portugal)