Curriculum Vitae

Name: **Carlos H. De Oliveira**
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Engineer Manager | Lead | Principal | Senior Full Stack Engineer
JavaScript, Typescript, React, GraphQL, Redux, React Native, NodeJS, .NET C#, AWS, Azure

MBA (System Information) | MBA (Software Management) | BSc (Computer Science)

- Developed frontend Single Page Applications (SPA) with ReactJs, Redux, AngularJs, and Apollo Client GraphQL, ensuring responsive design with CSS, SASS, and styled-components, and conducted comprehensive testing with Jest, Enzyme, React Testing Library, Cypress, and TestCafe.
- Built and maintained frontend build tools using Webpack, Grunt, Yarn, and NPM, and developed mobile applications for Android and iOS using React Native.
- Engineered and maintained Restful APIs and microservices using .Net C#, NodeJs, Express, Fastify, and Postgres RDS, incorporating AWS services like Lambda, Step Functions, Event Bridge, SNS, SQS, Kinesis Data Firehose, S3, API Gateway, and DynamoDB.
- Led backend development with serverless architecture and microservices using infrastructure as code (Terraform, SAM) and automated CI/CD pipelines with Gitlab and Jenkins.
- Implemented and supported robust IT solutions and optimized existing systems using AWS and Azure cloud technologies, driving technological innovation and operational excellence.
- Utilized continuous integration and delivery tools, including Git, GitHub, Gradle, Maven, NPM, Yarn, Artifactory, Docker, AWS ECS, Kubernetes, and SonarQube, ensuring automated deployment and integration.
- Managed teams of 4-8 engineers, providing mentorship, career progression support, and maintaining high performance KPIs, while directing technical strategy for teams of software development.
- Led the coordination and execution of large-scale production releases, ensuring seamless operation and alignment with organizational goals, and liaised with Business Analysts, Product Owners, and other stakeholders.
- Provided strategic direction and technical leadership across projects, consulting with executive-level stakeholders and liaising with strategic partners to ensure project success and alignment with organizational goals.
- Implemented comprehensive quality management and information security frameworks, ensuring projects meet the highest standards of quality and security.

Professional Work History

Engineer Manager
May 2024 - Present [Contractor]
<u>Commonwealth Bank</u>, Australia

Engineering Manager dedicated to delivering advanced payment systems for Business Banking, empowering merchants across Australia and New Zealand

- Managing two squads of 8 permanent developers each spread across Melbourne and Sydney.
- Mentoring the team to establish clear goals and supporting their career progression.
- Coaching and leading the team to maintain and exceed their performance KPIs throughout the year.
- Directing technical strategy and oversight for backend codebase and microservices.
- Liaising with Business Analysts, Product Owners and other teams to setup and manage expectations of software delivery and releases.
- Collaboration with DevOps (SME) culture.
- Contributing as Solution Design / Architect to design and build serverless and container based microservices.
- Coordination and execution of large production releases.
- Promoting best practices across multiple engineering teams
- Overseeing serverless architecture and microservices using infrastructure as code, including tools such as Terraform and Jenkins for automated CI/CD.
- Supervising the development of frontend web browser Single Page Applications (SPA) using ReactJs, Redux and the Android App.

Lead Full Stack Engineer
Dec 2022 – May 2024 [Contractor]
BHP Mitsubishi Alliance (BMA), Australia

Engineering, building and supporting crucial full stack systems across the organisation.

Backend Development
- Serverless Architecture and microservices using infrastructure as code, Terraform, SAM and Gitlab runners for automated CI/CD
- AWS CloudFormation, Lambda, ECS, Event Bridge, SNS, SQS, S3, KMS, API gateway and Docker containers.
- Restful API development and microservices using .Net C# and Postgres RDS.

Frontend Development
- Developing frontend web browser Single Page Applications (SPA) using ReactJs and Redux
- Experience with frontend unit, end-to-end and integration tests, using test runners (e.g. Jest, Enzyme, React testing library, Cypress).
- Frontend builds tools using Webpack, Yarn and NPM.
- Responsive styling using CSS, SASS, styled-components and HTML5 including accessibility concerns

Professional Work History

Principal Full Stack Engineer
Ago 2020 – Dec 2022 [Permanent]
Commonwealth Bank, Australia

Engineering Lead focused on, building, integrating and supporting crucial full stack systems across the organisation.

Principal | Lead Engineer
- Managing a squad of 4 permanent developers, plus seasoned contractors that varies from 4-8 engineers.
- Mentoring the team to elaborate clean goals and have support on their career progression.
- Coaching and leading the team to keep their KPI's on track to meet and exceed their performance during the year
- Lead technical direction & strategy for backend codebase and microservices.
- Liaising with Business Analysts, Product Owners and other teams to setup and manage expectations of software delivery and releases.
- Collaboration with DevOps (SME) culture.
- Contributing as Solution Design / Architect to design and build serverless and container based microservices.
- Build robust and secure web components and applications.
- Coordination and execution of large production releases.
- Preaching best practices across multiple engineering teams

Backend Development
- Serverless Architecture and microservices using infrastructure as code, Terraform, Jenkins for automated CI/CD, GraphQl and Apollo server
- AWS CloudFormation, Lambda and Step Functions, Event Bridge, SNS, SQS, Kinesis Data Firehose, S3, KMS, API gateway, Family Transfer and DynamoDB.
- Restful API development and microservices using NodeJs, Express framework, Fastify framework, Typescript, AWS event-driven architecture, Redis, DynamoDB, MongoDB and Postgres RDS.
- Unit tests with minimal coverage of 90% for each repository.

Frontend Development
- Developing frontend web browser Single Page Applications (SPA) using ReactJs, Redux and Apollo Client GraphQL.
- Experience with frontend unit, end-to-end and integration tests, using test runners (e.g. Jest, Enzyme, React testing library, Cypress, Test-café, SonarQube and others).
- Frontend builds tools using Grunt, Webpack, Yarn and NPM.
- Responsive styling using CSS, SASS, styled-components and HTML5 including accessibility concerns
- Docker containers, AWS S3, CloudFormation, CloudWatch

Professional Work History

Engineering Chapter Lead
Jan 2018 – Ago 2020 [Permanent]
National Australia Bank, Melbourne, VIC, Australia

Engineering Chapter Lead focused on, building, integrating and supporting crucial full stack systems across the organisation.

Engineer Lead
  - Lead technical direction & strategy for our frontend and backend codebase.
  - Liaising with Business Analysts, Product Owners and Managers to setup and manage expectations of software delivery and releases.
  - Collaboration with DevOps culture, delivering tested code and supporting our features in production.
  - Working closely with Solution Designers, UX Designers and qualified engineers within an Agile delivery environment.
  - Build robust and secure web components and applications
  - Coordination and execution of large production releases.
  - Implementation and support of AWS Architecture using CloudFormation, CloudWatch, X-ray, DynamoDB, SQS, SNS, Lambda functions and others cloud services and providers.
  - Experience with continuous integration/delivery tooling such as Git/GitHub, Jenkins, Gradle/Maven, NPM/Yarn, Artifactory, Docker, AWS ECS, Kubernetes and SonarQube.
  - Leading daily scrum stand-ups, meetings and regular sprints.
  - Mentoring, coaching and preaching best practices across multiple engineering teams

Frontend Development
  - Developing frontend web browser Single Page Applications (SPA) using ReactJs, Redux, AngularJs and Apollo Client GraphQL.
  - Experience with frontend unit, end-to-end and integration tests, using test runners (e.g. Jest, Enzyme, React testing library, Cypress, Test-café, Protractor, SonarQube and others).
  - Frontend builds tools using Grunt, Webpack, Yarn and NPM.
  - Responsive styling using CSS, SASS, styled-components and HTML5 including accessibility concerns
  - Docker containers, AWS S3, CloudFormation, CloudWatch

Backend Development
  - Serverless Architecture and microservices using infrastructure as code, Jenkins for automated CI/CD, GraphQl and Apollo server
  - AWS CloudFormation, Lambda and step functions, SNS, SQS, S3, KMS, API gateway.
  - Restful API development and microservices using NodeJs, Express, Apache Kafka event streaming, Redis, DynamoDB, MongoDB and Postgres RDS.
  - Unit tests with minimal coverage of 90% for each repository.

Senior Full Stack Developer
Jun 2017 – Feb 2018 [Contractor]
DreanWalk, Melbourne, VIC, Australia

Professional Work History

Working as senior full stack developer building Frontend Single Page Applications with React. Mobile Apps using React Native and also lead development of backend APIs using NodeJs with framework Express.

Frontend Development
- Developing frontend web browser Single Page Applications (SPA) using ReactJs, NextJs and Apollo Client GraphQL.
- Mobile development for Android and IOS using React Native.
- Frontend builds tools using Webpack and NPN.
- Frontend package managers: Yarn
- Responsive styling using CSS, SASS and HTML5
- Implementation frontend tests using Jasmine and Karma.

Backend Development
- Restful API development using NodeJs+ using Express, Redis, MongoDB and Postgres databases.
- GraphQl and Prisma
- Test Development Driven environment using automated and unit tests.

Software Engineer / DevOps
- Implementation and support of Heroku and AWS Architecture using Elastic beanstalk, EC2, RDS, SQS and VPCs.
- Implementation of Continuous Integration using Codeship.
- Leading daily scrum stand-ups, meetings and regular sprints.

Senior Full Stack Developer
Aug 2016 – Jun 2017 [Contractor]
Arkade Loyalty Agency, Melbourne, VIC, Australia

Working as senior full stack developer building Frontend Single Page Applications with React. Mobile Apps using React Native and also lead development of backend APIs and middleware systems using PHP 7.1+ with framework Laravel 5+.

Frontend Development
- Developing frontend web browser Single Page Applications (SPA) using ReactJs.
- Mobile development for Android and IOS using React Native.
- Frontend builds tools using Webpack and NPN.
- Frontend package managers: Yarn
- Shopify Theme development/maintenance using liquid template and React components integration.
- Responsive styling using CSS, SASS and HTML5
- Implementation frontend tests using Jasmine and Karma.

Backend Development
- Restful API development using PHP 7+ using Laravel 5+, Redis, MySql and Postgres databases.
- Development of middleware API integrating ecommerce, point of sales and warehouse ERP systems.
- Test Development Driven environment using automated and unit tests.

Professional Work History

Software Engineer / DevOps
- Implementation and support of AWS Architecture using Elastic beanstalk, EC2, RDS, SQS and VPCs.
- Implementation of Continuous Integration using Codeship.
- Leading daily scrum meetings and regular sprints.

Senior Full Stack Developer / Software Engineer
Jun 2015 – Aug 2016 [Permanent]
Elmo Talent Management Software, Melbourne, VIC, Australia

Reporting to the CTO, working in a flat development environment with 4 full stack developers in Melbourne and 16 in Sydney, building and maintaining HR cloud technology to more than 2 million users across the Asia Pacific region.

Frontend Development
- Frontend browser development using Angular.js 1.5 and JQuery
- Frontend build tools using Gulp.
- Frontend package managers: NPN
- Responsive development using CSS3 and HTML5
- Jasmine and Karma

Backend Development
- Web Developer building API's in PHP and Symfony2, RabbitMQ, Redis and Mysql.
- Implementation of Test Development Driven environment using Codeception.

Software Engineer / Systems Analysis
- Implementation and support of Symfony Architecture, modules and Bundles.
- Design and Implementation of software engineering and development best practices over the entire SDLC.
- Implementation and support of AWS Architecture and Cloud Formation.
- Implementation of Continuous Integration using Atlassian suite (Bamboo working flow, Jira and confluence).
- Leading daily scrum meetings and regular sprints.

Senior Full Stack Developer / Software Engineer
Jan 2015 – Jun 2015 [Contractor]
Trout Creative, Melbourne, VIC, Australia

Reporting to Project Manager, supervising and working with 8 Backend/Frontend developers for an exclusive/innovative and first Enterprise software development project conducted by the company.

Full SDLC Web Development
- Lead Web Developer to build an API in PHP and Symfony2.
- Working closely with the Frontend development using BackboneJS and ReactJs.
- Development of APIs integrating Website and Web Systems with Mobile Apps.
- Implementation of Test Development Driven environment covering 90% of the API.

Professional Work History

Software Engineer / Systems Analysis
  - Implementation and support of Symfony Architecture, modules and Bundles.
  - Design and Implementation of software engineering and development best practices over the entire SDLC.
  - Coordinated and supported analysis and gathered requirements and business processes, converting it to systems architecture and features for the main project of the company.
  - Implementation and support of AWS Architecture and Cloud Formation.
  - Implementation of Continuous Integration using Bamboo working flow.

Lead Web Developer / Management Information Systems Expert (MIS SME)
Sept 2009 – Dec 2014 [Permanent]
United Nations - International Labour Organization (ILO), Dili, East Timor

Reporting to the ILO Country Director in Jakarta and the ILO Head of Mission in East Timor, managing 10 multicultural staff locally and 12 programmers in different countries and time zones (East Timor, Indonesia, India, Brazil and USA).

Full SDLC-Web Development
  - Lead Web Developer on projects worth up to $10m using XML, HTML, CSS, Jquery, JavaScript, Ajax, Drupal 6&7, PHP 5 + Zend Framework and Web Services.
  - Set up pilot environments for developers to apply new technologies in real-time environments: Apigility Framework, TDD, Angular JS, Ext-Js and Zend Studio for Mobile App (Android) using Rest architecture and RestFul web services.
  - Developed specific desktop software using MS C#.Net.
  - Managed multiple relational databases including MS SQL Server 2008 and MySql Server.

MIS Expert (SME) / Systems Analysis
  - As Management Information Systems Expert on four projects, was responsible for budget planning, consultant hiring, and monitoring and evaluation of the full SDLC.
  - Managed simultaneous projects of software engineering and development over the entire SDLC.
  - Coordinated analysis and gathered requirements and business processes, converting it to systems architecture and features for three government ministries (2009 – 2012).
  - Implemented ITIL v3 frameworks, best practices and Services Management processes in the Ministry of Employment (2010) and Ministry of Economy and Development (2013).
  - Established a catalogue of first level support services for more than 250 end users. 400 ICT assets were mapped and easily traceable (2013).

Business Analyst
Jan 2014 – May 2014 [Part-time Contractor – 20+ hours p/wk]
World Bank, Washington, D.C - USA / East Timor

Web Developer / Systems Analyst
Nov 2008 – Nov 2009 [Contractor]
United Nation Development Programme (UNDP), Dili, East Timor (UN's Global Development Network)

Professional Work History

Systems Analyst / Web Developer
Sept 2007 – Nov 2008 [Permanent]
University of Goias – Medical School Hospital, Goiania, Brazil (Health/Education)

Support Analyst
Apr 2004 – Aug 2007 [Permanent]
Caixa Economica Federal, Goiania, Brazil (Largest financial bank in Brazil)

Network Technician
Feb 2002 – Oct 2003 [Permanent]
Telemont Engineering – Brasil Telecom, Goiania, Brazil (Telecommunications)

Education & Qualifications

MBA in System Information
ESAB University – Online, Brazil (2009)
Full Time MBA study with more than 480 hours

MBA in Software Management
Uni-Anhanguera University, Brazil (2008)
Full Time MBA study with more than 360 hours

Bachelor's in computer science
Unip University, Brazil (2007)
Assessed as comparable with an AFQ Degree with a major in Computing (Australian Computer Society 2013)

Australian Computer Society
Skills assessed as suitable for migration under 261312 (**Developer/Engineering Programmer**) of ANZCO