

Carlos Castro Vargas

Fullstack Engineer

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JOB EXPERIENCE

4DPipeline - Senior Software Engineer, Remote 04/2024 - 09/2025

- Worked on a House Configurator project called AliveHome360 for Schumacher Homes
- Architected and built a TypeScript-based frontend using React and Vite, translating Figma prototypes into production-ready UI. Implemented state management with Redux, routing with React Router, and leveraged modern React hooks for performance and composability.
- Worked on the backend using Node.js, Postgres, TypeOrm, Express, yarn and implemented several endpoints.
- Architected and provisioned a production-grade AWS platform using Terraform.
- Automated backend & frontend deployments and integrated automated tests into our Bitbucket Pipeline.

Upstart13 - Senior Full Stack Software Engineer, Remote 10/2023 - 01/2024

- Worked in the HomeStory Platform project using AWS, React and Node.js technologies.
- Introduced automated tests into the codebase.

4DPipeline - Fullstack Developer, Remote 10/2018 - 03/2023

- Worked with different clients such as Rolls-Royce, WeTherapy, Adidas, ToonBoom, Material Bank
- Worked solo as well as a teamplayer
- Used different AWS services such as EC2, S3, SQS, RDS
- Integrated with different type of services such as Twilio, Zoom and Pushy
- Implemented UX on both Vue.js and React.js and automated tests with Cypress
- Implemented Rest APIs for clients with tasks that included auth flows with different providers (Apple and Google), various AWS integrations, different levels of access control, uploading files, CRUD functionalities, asynchronous background jobs.
- Worked with different DB engines such as SQL Server, MongoDB, RDS and PostgreSQL.

Clio - Software Developer, Vancouver, BC 03/2017 - 06/2018

- Implemented and shipped the first React Native app (redux-driven) of the company in a team of two devs and using Jest for tests before bringing best practices in state management into other codebases within the company.
- Contributed and shipped an Outlook Add-in implemented on top of Angular and using Jasmine and Karma for tests.
- Contribute on the backend Rails stack fixing bugs and improving performance using TDD approach with Rspec.

Amazon Music - Software Development Engineer, San Francisco, CA 02/2013 – 04/2016

- Part of the Android Team who developed a new generation of Amazon cloud player and store for Android and Fire devices.
- Contribute to refactor and redesign code base.
- Develop new features and ship them meeting strict deadlines and quality bars.
- Some of the tools used in the dev environment were Gradle, Android Studio, Jenkins, Git, Review Board.

Symantec - Cloud Technologies Intern, Mountain View, CA 06/2012 – 11/2012

- Research in Amazon Web Services and OpenStack APIs followed by demos that prove concepts and show possible use cases that can be applied to Symantec Enterprise Products by using both APIs.
- Demos built using Spring and Tomcat.

COSAC-SJSU - Tech Position, San Jose, CA 03/2012 – 05/2012

- Worked on the development of a new system for the COSAC Department.

Shopping.com - Intern-Auditor, Brisbane, CA 6/2011 – 09/2011

- BucketTool – Development of internal tool that handles configuration files in CSV format in CP-1252 and UTF-8 encoding using Spring framework
- Shopping.com web mobile site new release that included 8 patches and an implementation of Omniture tracking for the website. Implemented in Spring and deployed in Tomcat.
- Fixing bugs in Shopping.com's front-end.

EDUCATION

- Bachelor in Science - Computer Science, 2012
San Jose State University - San Jose, CA (SJSU 3.694; Overall GPA 3.370; Graduated with Honors)
- Associate in Science - Computer Science, 2011
City College of San Francisco, San Francisco, CA (3.16)

SIDE PROJECTS

carlosconnected.com - Personal project, 01/2026 - present

getKeySet.com - Fullstack Developer, 02/2022 - 04/2024

- Responsible for maintaining the platform and the Chrome extension as well as

keeping dependencies up-to-date.

- Implement new features, run tests and deploy.
- React, Next.js, MongoDB, Typescript, Mongoose, Jest, Cypress, Digital Ocean, Github

Colabora.pe - Fullstack/Co-founder, 11/2020 - 09/2022

- Implemented, tested and deployed the platform from scratch.
- Google Maps and Payments integrations.
- React, Next.js, Node.js, Express.js, MongoDB, Typescript, Mongoose, Jest, Cypress, Docker, EC2, ECS, S3, GitLab

SKILLS

- Very strong knowledge of TypeScript, JavaScript and Java.
- Terraform, Docker, Kubernetes.
- AI tools like Cursor, Codex and Copilot.
- AWS (EC2, Lambda, S3, SES, EKS, RDS, SQS), Azure, Google Cloud, Digital Ocean.
- Modern lean/agile development practices, Sprints and Kanban, and tools, such as Git, Jira, GitHub, Bitbucket, GitLab, Figma, AdobeXD.
- Experience with libraries/frameworks and libraries like React Native, React, NextJS
- Jest, Cypress, Playwright, React Testing Library and Karma.
- Advocate of the SOLID principles as well as functional programming patterns.
- Strong knowledge of DB engines such as MongoDB, MySQL, PostgreSQL, SQLite.