

Max Arturo Alcalá Sáinz

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Summary

Software engineer with business and customer-facing experience in both Fortune 50 companies and startups. My experience has ranged from individual contributor (including a Principal role), to managing large teams onshore and offshore. My current interests cover language parsers/compiler, literate programming, and the art of fostering a healthy company culture.

Skills

Note. The following list of technologies and languages is not exhaustive nor comprehensive for practicality; please reach out if a particular language or framework matters to you.

Programming Languages: TS/ES7/ESNext/JS, Kotlin, Ruby, Golang, Common Lisp, Rust, Dart, VBA/VBS, sh/bash/zsh, L^AT_EX, most markup and hypertext languages.

Frameworks and storage: GraphQL, message queues, Rails, NextJS/most JS frameworks, Reactive Extensions (particularly Rx.js). Varied functional programming experience (Haskell, Elm, functional TS libraries). RDBMS/NoSQL/K-V persisted storage, as well general caching components and libraries.

Devops/CI: Jenkins/Teamcity/GH actions, deployments via Docker and containerization, Kubernetes/istio. AWS/GCP/Azure management, cost tuning and other general tasks (IAM, TF/deployment troubleshooting), etc. Instrumentation and measurement, bash scripting and basic Linux server management. Previous Terraform/Chef exposure. Automated testing/e2e via Playwright/Cypress/Puppeteer.

Frontend and mobile: HTML5, CSS preprocessors, Javascript/precompilers (Babel/TypeScript). Mobile primarily via Flutter. Client-side data visualization and processing (d3, crossfilter, SVGs), React.js, Redux, Angular 6/7/8. No-JS frameworks (HTMX, tachyons.css)

Management/PE/Tech Lead: Work at any level of abstraction within management (process requirements, deliverables, proof-of-concept). Excellent analytical, communication and problem-solving skills. Seasoned interviewer and hiring manager. Previous experience working directly with Fortune 50 VPs as well as directly with end-users. Experienced leading offshore, as well as onshore teams.

Natural Languages: Native Spanish, Intermediate Japanese.

Certifications: AWS Certified Solutions Architect - Associate

Experience

- **PriceWaterhouseCoopers, LLC (PwC)** Chicago, IL
2021-2023
 - Led design and implementation of blockchain auditing solutions for PwC Labs
 - Provided technical leadership, executed on mission-critical components and prioritized projects with senior leadership

- Spearheaded blockchain research, PoC and upskilling via hands-on seminars
- Support and mentor offshore developers. Encouraged best practices, industry-standard patterns, and performed architectural analysis
- Stack: ES6/Typescript, Angular 5, Node.js, GCP Suite, Docker, Kubernetes, Firebase, Jenkins, Postgres

- **Clearcover.com** Chicago, IL
Lead Software Engineer 2019 - 2021
 - Lead team responsible for successfully delivering the company's core Policy Management API
 - Build templating system for generating insurance forms via AWS/Puppeteer/Node apis
 - Pair, upskill, and unblock team members to maximize their productivity and promote a healthy dev team culture
 - Stack: Functional Typescript(v3.x), Rails, Kotlin, AWS/K8s, Postgres
- **PriceWaterhouseCoopers, LLC (PwC)** Chicago, IL
New Ventures Practice Tech Lead 2017 - 2019
 - Provide technical leadership for multiple greenfield SaaS offerings across all aspects of the SDLC
 - Responsible for all aspects of technical execution for product vision: Architecture, hands-on development, infrastructure, code quality/best practices, hiring, runbooks, etc.
 - Lead offshore developers with a supportive environment, mentoring and industry-standard patterns
 - Promote successful development team behaviors (developer-led estimations, people over process) in the firm
 - Stack: ES6/Typescript, Angular 5, Node.js, GCP Suite, Docker, Kubernetes, Firebase, Jenkins, Postgres
- **ReviewTrackers** Chicago, IL
Senior Software Developer 2017
 - Deliver features across the entire stack to unlock company growth
 - Support team efficiency by automating tasks and workflows
 - Pair-program and mentor junior developers
 - Measure performance and find optimization solutions
 - Stack: React, Golang. Ruby, Solr, Heroku/AWS, React, Node.js, Postgres
- **Shoppertrak** Chicago, IL
Senior Software Developer/Team Lead 2015 - 2016
 - Own and maintain the Node API for the company's main reporting app
 - Manage the tasks for my team and prioritize with PMs and Tech Architect
 - Promote best practices in my team, pair-program and mentor teammates
 - Configure CI tools, provision, deploy and document server infrastructure requirements
 - Stack: Angular, Node.js, AWS, Redshift/PG, TeamCity
- **Tukaiz, LLC** Chicago, IL
Software Developer May - Oct 2015
 - Support Rails 2.3.8, 3, & 4 applications
 - Refactored large legacy VB codebase into Ruby
 - Re-implemented file management scheduler with Rails/Sidekiq
- **Gearbox Software** Dallas, TX
Software Developer - Contractor May - Dec 2015
 - Implement Battleborn Game launch and Beta registration sites with Ruby/Rails
 - Collaborate on UX flows and internal API flow

Education

- **M.S. Supply Chain Management** GPA: 3.72
University of Texas at Dallas Dec 2012
- **B.S. Operations Management, Minor in Computer Science** GPA: 3.94
University of Texas at Dallas: Summa Cum Laude, Dean's List Dec 2011
- **Donnguk University-Seoul, South Korea** March-Jun 2010
MIS Exchange Program GPA: 3.95

Projects and OSS

Vamonos MGP: A flutter ios/Android app to assist the general public in the Puerreydon municipality of Argentina with public transportation arrival times. [App Store link](#)

maxarturo.github.io: A Common Lisp static site generator that allows for arbitrary s-expression execution within the context of Markdown files. hosted under [maxalcala.com](#)

cl-peg-yapp: Product Expression Grammar (PEG) parser, code generator and meta-parser built from first principles in SBCL. Parses its own grammar and allows for PEG bottom-up testing and literate coding. [link](#)

zod: Contributed Collaborated on the GH project. A versatile TS run-time type validator. [gh link](#) and [commits](#)

jibun (WIP): An efficient, linear-time Hitori puzzle generator, with a React frontend. It improves upon the state-of-the-art with a novel graph algorithm to generate covered squares, and Knuth's DLX exact-cover algorithm to generate numbers.