Max Arturo Alcalá Sáinz

254 Swett Rd
Woodside, CA 94062 USA

(+1)773-640-3531
https://github.com/maxArturo
maxarturo@gmail.com (Twitter: @maxArturoAS)
https://maxalcala.com

Skills

Programming Languages, frameworks and storage: TypeScript/ES7/ESNext, Node.js, Kotlin, Ruby/Rails, RDBMS/NoSQL persisted storage. Golang, GraphQL, message queues, Bash scripting, LATEX, and Reactive Extensions (particularly Rx.js). Some functional programming experience (Haskell, Elm, functional TS libraries).

Devops/CI: Jenkins/Teamcity, deployments via Docker and containerization, Kubernetes, Vagrant, AWS, GCP, instrumentation and measurement, basic Bash scripting and basic Linux server management. Previous Terraform/Chef exposure. Automated testing/e2e via Cypress/Puppeteer.

Frontend: HTML5, CSS preprocessors, Javascript/precompilers (Babel/TypeScript), Client-side data visualization and processing (d3, crossfilter, SVGs), React.js, Redux, Angular 6/7/8.

Management/Tech Lead/Business Environment: Work at any level of abstraction within management (process requirements, deliverables, proof-of-concept). Excellent analytical, communication and problem-solving skills. 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

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Experience

- **Clearcover.com** — Chicago, IL
  Lead Software Engineer — *2019 - Present*
  - 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, Manager 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

- **PepsiCo - Frito-Lay North America** Plano, TX
  Supply Chain/Transportation Developer Jan 2013 - May 2015
  - Generated and reported key national Supply Chain metrics (Fill Rate, DOH, Demand Accuracy), for Frito-Lay US and Canada on an ongoing basis
  - Maintained ETL and data collection scripts for all Frito-Lay Supply Chain reporting
  - Developed transportation/warehouse reports from Oracle Data warehouses

- **PepsiCo - Frito-Lay North America** Plano, TX
  Internship - Strategy and Business Innovation - Systems Integration Jan 2010 - Dec 2011
  - Interfaced with Warehouse and Demand Planning systems to provide decision support
  - Designed and Implemented reporting tools for Transportation and Business Innovation teams

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

amalgam: A news aggregator that's blazing-fast, has no JS, and serves out of decades-old hardware. link

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.

mock-knex: Library to mock the popular knex DB client for node. Became a contributor when the package had fallen behind and was not working. Collaborate with @jbrumwell on keeping up with newer knex versions.

peakbucket.com: Hiking and summit logging site, developed on Ruby/Rails + d3.js for data visualization.

d3 handwriting: Attempt to recreate variable, handwriting SVG glyphs using d3.js (github)