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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/compilers, 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, \LaTeX , 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/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
PwC Labs - Principal Engineer 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
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- **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
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- **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
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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.