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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/Columnar 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), Remix framework, 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 English, Native Spanish, Intermediate Japanese (日本語能力試験N3)

CERTIFICATIONS: AWS Certified Solutions Architect - Associate

EXPERIENCE

- **Common Sense Privacy (Subsidiary of Common Sense Media™)** REMOTE
Lead Contractor 2023 - Present
 - Lead developer for company's codebases
 - Took over from previous contractor team at a critical junction and refactored code for maintainability
 - Implemented CI/CD best practices, ensured test reliability, upgraded dependencies and enabled streamlined long-term support
 - Current approach allows feature growth in balance with reliability at a fraction of the budget
 - Stack: Vite/Typescript, Remix framework, Node.js, AWS, Docker, CircleCI, MySQL

- **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

- **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 Pueyrredón municipality of Argentina with public transportation arrival times.
- maxarturo.github.io:** A barebones static site generator that aims for dependency reduction and speed of generation, while presenting a literate hypertext in the style of Edward Tufte. 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:** 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.