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Projects & Experience

Sr. Director of Engineering - ReUp Education
2022 - Present

- Created entire engineering department from scratch; Technology roadmap for multiple products, hiring process, department budget, standardized engineering rubric, monthly and quarterly reports, and department OKRs. Added modern development processes, tooling, testing, CI/CD, IaC, industry wide best practices and security forward mindset. Created and cultivated a department culture of innovation, learning and quality. Organized quarterly Lunch and Learn sessions. As well as providing mentoring, and performance reviews.
- Created and lead teams to implement transition plan for several legacy monolith products to a modern scalable architecture. Streamlined process bottlenecks, added automation, improved teams and service performance while reducing costs.
- Documented new and legacy system architecture, data models, products and processes.
- Conducted 60+ interviews for all levels of engineering and management roles. Hiring 15+ engineers and several managers, increasing the team size to 5x in 6 months.
- Launch a new product to several new marketplaces, implement long outstanding company initiatives, new features, improvements to existing products and create several new external facing client APIs.

CTO (Co-Founder) - Stealth Social Startup
2020 - 2022

- Architected & built mobile app (iOS and Android) published on Apple & Google Play store.
- Created custom marketing site and setup mailing list manager to reduce costs.
- Architected & built administration site to manage user content, data access, multi environment deployment and releases.

Technical Consultant - Self
2018 - 2023

- Architected & Built web app and admin dashboard.
- Designed and Conducted 10+ interviews for VP of Engineering position, and 30+ interviews for Fullstack engineer positions at all levels.
- Created a technical plan (architecture...), budget and timeline for a new SAAS product.
- Added and fixed feature in existing production web app. Documented data models and schemes of the backend.
- Rebuilt deployment orchestration system (VMs in the cloud), architected/built Electron app, created Chrome extension/plugin, and developer/testing tooling.

Sr. Technical Leader/Architect - Cisco
2014 - 2018

- Technical leader, manager, mentor, architect, resource/project planning and created development methodologies.
- Designed and conducted over 200+ interviews for Fullstack engineer positions.
- Released over twenty projects with a wide range of technology, marketplaces, and ranging from long (1.5 years) to short (2-3 months) term.

Research / Publications

- Testing Cyber Security with Simulated Humans that Plan (AI/ML)
- A Time-Series Intra-Video Collusion Attack on Frame-by-Frame Video Watermarking (Mathmatics/Statisics)
- Development of CPT M3D for Multiple Chemical Plume Tracing and Source Identification (AI/ML)
- Integration of Chemical and Visual Sensors for Identifying an Odor Source in Near Shore Ocean Conditions (AI/ML)
- Optimization of Source Identification Algorithm Derived from Moth-Inspired Plume Tracing Strategies (AI/ML)
- Design of Source Identification Zones for Declaring an Odor Source in Turbulent Fluid-Advected Environments (AI/ML)

Technology

Languages	: Typescript, Python, HTML, CSS, C/C++, C#, Java, Bash/Shell
Cloud	: AWS, Google Cloud, Severless, Microservices, Kubernetes, CI/CD, IaC, Salesforce
Web	: RESTful, GraphQL, WebSockets, NodeJS, NestJS, NextJS, React, ReactNative, Electron
Database	: PostgreSQL, Elasticsearch/OpenSearch, DynamoDB, Redis, Firebase, SQlite, MongoDB
Protocols	: HTTP, WebSockets, XMPP, XML-RPC, MPEG4, AVI, JPEG, PNG, DCT, FFT
AI/ML Tech	: LLM, Neural Nets, Expert Systems, Matlab, Tensorflow, LangChain