Alexander Wong

alex-wzm.dev

Engineering leader who scaled an identity platform to 100M monthly users, then founded two climate businesses. Now looking to build software for the energy transition.

Founder

Spotlight Solar Services | Jun 2026 – Present*

- Growing a solar services business that restores more than enough clean power to displace its operating emissions.
- Building internal tools with LLMs (agentic scheduling, standardized job reporting) so our employees spend less effort on admin and more on getting home safe to their families.

Co-founder

Refurbion | Jan 2026 – Present*

- Extending the life of enterprise laptops and phones: 200,000+ refurbished and back in use in our first six months.
- Tuned production lines around customers' requirements, filtering and customizing ITAD devices to fit.

* *Both businesses run day-to-day without me. I'm available for full-time work now.*

Fellow

Climatebase | Mar 2024 – Present | San Francisco, CA

Leading technical capstone projects and coordinating quarterly community events.

Carbon Foodprint *Project Lead* | 2025 – Present

- Prototyped Flutter app to quantify, track, and visualize carbon efficiency of nutrition and food waste.
- Built Supabase backend processing meal data through a carbon accounting model spanning Scope 1–3 agricultural emissions.

Niobia AI *Product Advisor* | 2026

- Rebuilt the website and distilled the positioning for an AI-first workspace for battery R&D and manufacturing, from cycler data analysis to cell design.

Grove *Software Architect* | 2025

- Designed onboarding and authentication flows with Plaid integration for micro-investing in verified tree planting.

Nui *Software Architect* | 2025

- Designed multi-tenant system with permissions-aware RAG enabling human-in-the-loop agentic workflows for blue carbon RFP processing.

Engineering Lead, Digital Identity

Kount, an Equifax Company | Apr 2020 – May 2024 | Remote

Steered the *Identity as a Service* product from proof-of-concept to production. Joined as first hire on the team, left leading twelve semi-remote engineers.

Staff Software Engineer | 2022

- Architected Identity as a Service: embedded SSO with verified identity and consent for 100M monthly users.
- Co-designed the product with the product owner, owning technical product design, feature prioritization, and tech debt management.
- Authored design docs and diagrams that sped up cross-functional architecture approvals and readiness reviews.

- Partnered with the cloud platform team to bake compliance in by default, so other teams could ship faster.
- Brought the product through enterprise security review and managed our external security auditor.
- Grew the team to twelve engineers (~$2M annual budget), running hiring, strategy, and cadence through multiple reorgs.
- Led twelve engineers through a multi-quarter GCP-to-AWS migration onto Terraform/Kubernetes, navigating the Equifax–Kount M&A without stalling feature development.
- Adopted Shape Up to ship through moving goalposts; leadership then asked me to evangelize it across other teams.

Senior Software Engineer | 2020

- Designed SDK-driven OAuth/OIDC and Identity Proofing flows (50+ permutations, NIST 800-63 compliant) with enhanced auth: Passkeys/WebAuthn, DPoP.
- Wrote core identity services and SDKs in Go, TypeScript, and Kotlin for embedded SSO.
- Integrated OCR identity document scanning into the identity proofing architecture I designed and deployed.
- Set standards for API contracts and code generation (OpenAPI, gRPC) and built a Storybook design system.
- Built onboarding tooling that took new engineers from zero to PR in their first week.
- Moved CI/CD off Jenkins to GitLab; set up DataDog monitoring; wrote the first integration test suites in Cypress and Playwright.

Software Engineer, Natural Resources

Accenture Innovation Hub | Oct 2018 – Jan 2020 | Singapore

Rapid prototyping of emerging tech for industrial clients across O&G, utilities, mining, agriculture, and transportation.

- Trained a YOLOv3 + LSTM classifier in PyTorch to detect unsafe activities and missing PPE at industrial sites; Accenture went on to deploy it at several customer sites.
- Simulated peer-to-peer trading of tokenized distributed energy assets, showcased at a regional energy summit to make the case for deregulation to Southeast Asian utilities.
- Prototyped natural interfaces for an intelligent operations center: camera feeds, gesture control of a robotic arm, an extended-reality headset for field workers, and a multilingual voice agent (years before ChatGPT voice mode) that acted on IoT systems.

B.A.Sc in Cognitive Science (Honours)

McGill University | 2018 | Montreal, QC

- Major: robotics, machine learning
- Minor: ecological economics, embodied energy analysis
- Thesis: *Building trust in human-machine interactions*, published at IEEE CRV (Computer and Robot Vision) 2019
- Co-President of the Student Association of Cognitive Science

Stack

React, TypeScript, Python, PyTorch, Go, Kotlin, gRPC, OpenAPI, Postgres, Supabase, Docker, Kubernetes, Terraform, DataDog, AWS, GCP, Claude Code