

Alexander Wong

alex-wzm.dev 

Building software for the transition to renewable energy, the future of weather monitoring, and the circular economy of materials.

Fellow

Climatebase | Mar 2024 – Present | San Francisco, CA

Leading technical capstone projects and coordinating monthly community events.

Niobia AI  Product Advisor | 2026

- Distilled product capabilities into website positioning of electrochemical analysis agent for battery R&D.

Carbon Foodprint Project Lead | 2025

- Prototyped Flutter app to quantify, track, and visualize carbon efficiency of nutrition and food waste.
- Built Supabase backend integrating external APIs to process meal data through a carbon accounting model aggregating LCA data across Scope 1–3 agricultural emissions.

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 Engineer | 2022

- Architected Identity as a Service: embedded SSO with verified identity and consent for 100M monthly users.
- Navigated the Equifax–Kount M&A (and tech stack shuffle), supporting peer teams along the way.
- Championed shift-left security with the cloud platform team: compliance baked in by default.

Senior Software Engineer | 2020

- Wrote core business logic for digital identity services. Built front-end and back-end SDKs for embedded SSO.
- Designed SDK-driven OAuth/OIDC and Identity Proofing flows (50+ permutations, NIST 800-63 compliant) with enhanced auth: Passkeys/WebAuthn, DPoP.
- Built the dev-experience foundations: API contracts, CI/CD, observability, design system.

Software Engineer, Natural Resources

Accenture Innovation Hub | Oct 2018 – Jan 2020 | Singapore

Sparked new client business across O&G, utilities, mining, agriculture, and transportation.

- Engineered 10+ prototypes using agile principles and design thinking.
- Simulated a distributed energy marketplace showcased at a regional energy summit.
- Built multilingual voice agent (like ChatGPT voice mode) and extended-reality interface.

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 2019

Stack

React, TypeScript, Python, Go, gRPC, Postgres, Supabase, Docker, Kubernetes, Terraform, DataDog, AWS, GCP