

Liang C. Chow

(612) 532-2145 | liangchern@gmail.com | liangchow.github.io | [lcchow](https://www.linkedin.com/in/lcchow)

SUMMARY

Geotechnical Engineer with 10 years of consulting experience across technical and business domains, now pivoting into full-stack software development with a focus on building and iterating early-stage products from 0 → 1.

SKILLS

FRONTEND | React • NextJS

BACKEND | FastAPI • Node.js • Firebase

LANGUAGE | Python • Javascript

OTHER | TailwindCSS • SciPy • Scikit-learn • OpenCV • JupyterLab • MATLAB

SOFT SKILLS | Lean Project Management • Staff Management • Client Facing

PROJECTS

QUOTEBYTE | www.quotebyte.app

JAN 2026

- Deployed a newsletter subscription web app on Vercel with a **Node.js (Express) API**, scheduled email delivery via cron jobs and **Firebase** for data storage, with a lightweight **HTML/CSS** frontend.
- Implemented SEO fundamentals, added CSRF protection, and obfuscated frontend code with Babel.

NAPA VALLEY RESERVOIR WATER LEVEL FORECAST

JUL 2024

- Leveraged 43 years of historical data to perform time-series analysis using **scikit-learn** and **pmdarima**, reconstructing a critical 3-year data gap and ensuring compliant, on-time reporting, helping the Owner avoid \$100+k fines from the Division of Safety of Dams.

AVIA LAB'S AUTOMATED REPORTING SYSTEM

2023 - 2025

- Ideated and developed real-time vibration, groundwater, inclinometer data screening, processing, and reporting tool with **Geokon API** and **JupyterLab**.
- Achieved an NSR of \$577k with an NEM of 3.3.

DIGITIZING CPT PLOTS WITH COMPUTER VISION

OCT 2023

- Implemented **OpenCV** to digitize PDF plots for scaling data algorithmically, replacing tedious Excel spreadsheet for engineering analysis

EXPERIENCE

HALEY & ALDRICH

OCT 2021 - PRESENT

Project Manager | Walnut Creek, CA

- Managed residential, commercial, and data center projects from design through construction, using lean management metrics to track progress and improve delivery efficiency.
- Brought in \$690k revenue with an NSR of \$502k and NEM of 3.0 in 2025.

AMERICAN ENGINEERING TESTING

2014 – 2021

Geotechnical Staff Engineer | St. Paul, MN

- Staff engineer with experience in both office and field settings, gaining broad exposure to day-to-day engineering workflows and project delivery.

EDUCATION

UNIVERSITY OF ILLINOIS – URBANA-CHAMPAIGN (UIUC)
MSc, Civil Engineering | 2014

UNIVERSITY OF MINNESOTA – TWIN CITIES (UMN)
BSc, Civil Engineering | 2011

HONORS & AWARDS

GEOAI CHALLENGE 2024 |

Second place, Amazon Basin Secret Runway Detection Challenge using satellite images | 2024

CLIMATEBASE FELLOW | 2024

ACEC/MN ENGINEERING

EXCELLENCE AWARD | For honoring exceptional, innovation, creative problem-solving engineering projects | 2021

NSF GRADUATE RESEARCH

FELLOWSHIP | Honorable Mentioned | Top 30 percent of applicants for the competition | 2020

LICENSES

Professional Engineer (#94411)
Geotechnical Engineer (#3302)

INTERESTS

Sailing • Climbing • Coffee • Foreign affairs • Build cool stuff!