

Michael Mehrdadi

FULL STACK SOFTWARE ENGINEER

📍 Sacramento, CA

📞 (916) 835-2324

✉️ michaelmehrdadi123@gmail.com

🔗 GitHub

🌐 Portfolio

6+

LIVE WEBSITES

UI Lead

CA STATE AGENCY

Full Stack

REACT • EXPRESS.JS • AWS

B.S.

COMPUTER SCIENCE

PROFESSIONAL EXPERIENCE

Scientific Data System UI Lead

Sep 2025 – Present

California Air Resources Board | Sacramento, CA

- ▶ Lead full-stack development of secure platform for satellite-detected methane plume response management
- ▶ Architect React interfaces with Okta IAM, AWS infrastructure, CI/CD, Terraform & Docker
- ▶ Design PostgreSQL data models for real-time ingestion, reporting & cross-agency collaboration

Software Engineer

Jun 2025 – Present

AdVran Inc. | Sacramento, CA

- ▶ Built Credential Sentinel – web platform for credential exposure auditing & domain vulnerability analysis
- ▶ Integrated AI with SentinelOne to automate threat triage & generate detection insights

STEM Student Intern

Oct 2024 – Aug 2025

California Air Resources Board | Sacramento, CA

- ▶ Developed Python automation scripts & web scraping tools for large-scale data transformation
- ▶ Created data visualizations with ObservableHQ; managed Drupal web content

FEATURED PROJECTS

HCAI GIS Web App (Senior Project)

Full-stack GIS platform for California's HCAI. Built HPSA search with Azure Maps, shapefile/CSV uploads, Redis caching & PostGIS spatial rendering. Deployed with Docker.

geo.hcai.ca.gov/hpsa-search

IEEE CSUS Club Website

Led front-end development for IEEE CSUS with dynamic content sections and interactive event calendar. 50+ active student users.

ieee-web-app.vercel.app

TECHNICAL SKILLS

Languages

TypeScript

JavaScript

Python

Java

C++

C

GoLang

SQL

Frontend

React

Next.js

TanStack

Vite

Tailwind CSS

HTML/JavaScript/CSS

ShadCN

Framer Motion

Backend & Cloud

Node.js

Bun

FastAPI

Django

Express.js

REST APIs

Cloud & DevOps

AWS

EC2

Azure

Docker

Terraform

Nginx

Databases & Tools

PostgreSQL

PostGIS

MongoDB

Redis

Git

Okta

PRODUCTION WEBSITES BUILT & MANAGED

Full-stack development, deployment & ongoing maintenance for production web applications across multiple industries.

JEANS.com

E-Commerce

Cyboria

NIST 800-171

HB Facade

Consulting

ProCompact
Estates

Real Estate

SoCal Sweeping
Services

TinyHomeCompany
Home Builder

jeans.advran.opalstacked.com

cyboria.advran.opalstacked.com

hbfacade.com

procompactestates.com

socialsweeping.advran.opalstacked.com

thattinyhomecompany.com

RELEVANT COURSEWORK

Web Programming

Database Systems

Software Engineering

Computer Networks

GPU Programming

Data Visualization

Software Testing & QA

Operating Systems