

VIJIT DUA

vijitdua.com/portfolio

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EDUCATION

University of California, Davis [UC Davis]

B.S. Computer Science

Davis, CA

September 2023 – June 2027 (Expected)

- GPA: 3.784
- Dean's Honor List (FQ23, FQ24)

University of Hong Kong [HKU]

Semester Exchange

Hong Kong SAR

September 2024 – December 2024

- GPA: 4.0

LANGUAGES & TOOLS (underlined = highly experienced)

- Languages:** JavaScript, TypeScript, C++, C, Python, Java, RISC-V (assembly), x86 (assembly)
- Frameworks & Tools:** React.js, Vue.js, Next.js, Vite, React Native, Expo, Express.js, FastAPI, Django, Material UI, HTML, CSS
- Databases:** PostgreSQL, MySQL, MongoDB, SQLite, Firestore, Redis, Sequelize (ORM)
- Dev. Ops:** Docker, Kubernetes, Git, GitHub Actions (CI/CD), Nx (monorepo), AWS (EC2 & Cognito), Digital Ocean, Firebase, NGINX, Cloudflare
- Machine Learning:** PyTorch

PROFESSIONAL EXPERIENCE ([blue](#) = links)

UC Davis, IET

Jr. Application Developer

Davis, CA

February 2025 - Present

- Working on AggieCloud (internal cloud credential manager) using Nx, Vite, Vue, Pinia, & pnpm workspaces in a monorepo.

Icarus Development

Team Lead — Web Development

(Remote) Davis, CA

June 2024 – September 2024

- Temporarily joined as a mobile dev intern for a social app in TypeScript, React Native, & Expo; promoted to Web Dev Team Lead within a month.
- Led a 7-person team in weekly Scrum-style sprints to build frontend apps & internal tools using React.js, Node.js, & FastAPI
- Cut costs by 70% by replacing Vercel with a VPS; introduced GitHub CI/CD deployments & managed NGINX, Cloudflare.

KAIST (Korea Advanced Institute of Science & Technology)

Deep Learning Researcher [\[research paper\]](#)

Daejeon, South Korea

July 2024 – July 2024

- Selected among 18 global students for prestigious research program; Developed satellite road segmentation using UNet and Attention UNet in Python & NumPy.
- Trained Models on SpaceNet and Massachusetts datasets (~10k images).
- Achieved F1 score of 0.73, exceeding typical 0.70 benchmarks.

SchoolHouse.world [\[portfolio & reviews\]](#)

Volunteer Peer Tutor

Remote

August 2022 – January 2023

- Tutored AP Physics & SAT to 190+ students with 98% positive ratings; Ranked "Most Helpful Tutor of the Week" five times.

ACTIVITIES & LEADERSHIP

#include at Davis

Technical Lead

Davis, CA

January 2025 – April 2025

Launch Davis

Founder & Vice President

Davis, CA

January 2025 – Present

Davis Competitive Programming Club

Member

Davis, CA

November 2023 – June 2024

PROJECTS ([blue](#) = links)

InnoGreet | Collaborative Innovation Platform [\[showcase\]](#) [\[website\]](#)

Founder & Lead Developer

- Built a scalable monolith with Next.js (SSR), Express.js, PostgreSQL, & Redis; deployed via CI/CD on DigitalOcean with Discord logging.
- Engineered custom email auth, rate-limiting, and session handling; resolved cross-origin CORS/cookie issues.
- Designed responsive mobile-first light/dark UI using Material-UI with optimized performance via useMemo, useCallback, and Context APIs.

More Projects: vijitdua.com/projects