VIJIT DUA

🌐 vijitdua.com/portfolio

📞 +1(xxx)xxx-xxxx | ✉ inbox@vijitdua.com | ⌥ @vijitdua | in @vijitdua | 📍 Davis, CA

EDUCATION

University of California, Davis [UC Davis]   **Davis, CA**
B.S. Computer Science   *September 2023 – June 2027 (Expected)*
- **GPA:** 3.75 (Pending exchange program GPA transfer; currently 3.67)
- Dean's Honor List (FQ23)

University of Hong Kong [HKU]   **Hong Kong SAR**
Semester Exchange   *September 2024 – December 2024*

LANGUAGES & TOOLS

- **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, Sequelize (ORM)
- **Dev. Ops:** Docker, Kubernetes, Git, GitHub actions, AWS (EC2 & Cognito), Digital Ocean, Firebase, NGINX, Cloudflare
- **Machine Learning:** PyTorch

PROFESSIONAL EXPERIENCE (blue = links)

UC Davis, IET   **Davis, CA**
Jr. Application Developer   *February 2025 - Present*
- Developing and maintaining UC Davis IET apps and infrastructure

Icarus Development   **(Remote) Davis, CA**
Team Lead — Web Development   *June 2024 – September 2024*
- Led a 7-person team in delivering a full-stack application in under 2 weeks using React.js, Node.js, & FastAPI; oversaw the development of internal tools, the main website for Icarus Development, and deployment processes for other teams.
- Managed NGINX Linux server deployments, GitHub CI/CD pipelines, and Cloudflare setup, reducing time to deployment by 60%.
- Temporarily served as a mobile developer intern for a social app built with TypeScript, React Native, & Expo; Promoted to Web Dev Team lead within a month due to performance and leadership.

KAIST (Korea Advanced Institute of Science & Technology)   **Daejeon, South Korea**
Deep Learning Researcher [research paper]   *July 2024 – July 2024*
- Selected among 18 students worldwide for the prestigious research program to develop & train UNet and Attention UNet models to automate road infrastructure detection using satellite imagery.
- Achieved an F1 score of 0.73 on the final model, higher than the typical 0.70 for similar research.

SchoolHouse.world [portfolio & reviews]   **Remote**
Volunteer Peer Tutor   *August 2022 – January 2023*
- Tutored AP Physics & SAT, with 98% positive ratings from 190+ students.
- Ranked "Most Helpful Tutor of the Week" five times consecutively.

ACTIVITIES & LEADERSHIP

#include at Davis   **Davis, CA**
Technical Lead   *January 2025 – Present*

Launch Davis   **Davis, CA**
Founder & Vice President   *January 2025 – Present*

Davis Competitive Programming Club   **Davis, CA**
Member   *November 2023 – June 2024*

PROJECTS (blue = links)

InnoGreet | *Collaborative Innovation Platform* [showcase] [website]
- Leading development for a platform designed to connect innovators & foster collaboration.
- A project that could potentially transition into a startup based on beta launch success.
- **Technologies:** JavaScript, Next.js, React.js, Material-UI, Node.js, Express.js, PostgreSQL, Sequelize, Passport.js, NodeMailer.

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