

# VIJIT DUA

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## EDUCATION

### University of California, Davis [UC Davis]

B.S. Computer Science

Davis, CA

September 2023 – June 2027 (Expected)

- **GPA:** 3.75 (Pending exchange program GPA transfer; currently 3.67)
- Dean's Honor List (FQ23)
- **Relevant Courses:** Software Engineering, Computer Organization, Discrete Maths, Linear Algebra, Data Structures & Algorithms.

### University of Hong Kong [HKU]

Semester Exchange

Hong Kong SAR

September 2024 – December 2024

## LANGUAGES & TOOLS

- **Languages:** JavaScript, TypeScript, C++, C, Python, Java
- **Frameworks & Tools:** React.js, 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 CI / CD / actions, AWS (EC2 & Cognito), Digital Ocean, Firebase, NGINX, Cloudflare
- **Machine Learning:** PyTorch

## PROFESSIONAL EXPERIENCE (blue = links)

### Icarus Development

Team Lead — Web Development

(Remote) Davis, CA

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)

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

Daejeon, South Korea

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 [\[portfolio & reviews\]](#)

Volunteer Peer Tutor

Remote

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

Technical Lead

Davis, CA

January 2025 – Present

### 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 [\[showcase\]](#) [\[website\]](#)

- 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.

### OutWatch | Automatic Service Outage Monitor [\[showcase\]](#) [\[github\]](#)

- Developed a service monitor and bug reporter in 7 hours, sending real-time alerts to Discord.
- **Technologies:** Node.js, Express.js, PostgreSQL, Discord.js, Sequelize, node-cron.

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