

Chase Phung

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EDUCATION

Computer Science, B.S.

University of California, Irvine

- GPA: 3.88

Irvine, CA

Expected Jun. 2029

EXPERIENCE

Learning Assistant | ICS 6B: Boolean Logic and Discrete Structures

Mar. 2026 - Present

University of California, Irvine

Irvine, CA

- Assist 20+ students in propositional logic, relations, set theory, and proofs during weekly office hours and pre-midterm review sessions.
- Support over 150 students through in-person lecture guidance, discussion board responses, and weekly course planning meetings.

Research Discovery Program | Undergraduate Research Opportunity Program

Jan. 2026 - Present

University of California, Irvine

Irvine, CA

- Collaborate with PhD student mentor to survey ML efficiency and model compression literature, identify open research problems, and develop a project for lab outreach.

PROJECTS

DownStream | React, TypeScript, AWS

Apr. 2026

- Won Best AI for Environmental Impact at UCI AWS Cloud Hacks 2026; built a real-time chemical spill propagation simulator for emergency managers on the Mississippi River.
- Implemented budget-constrained mitigation options with spill-type-aware effectiveness logic, anchored to FEMA HMGP cost benchmarks from 597 federal projects.
- Integrated Amazon Location Service for geospatial map infrastructure and deployed via AWS Amplify, resolving a 10-hour deployment blocker with secrets configuration.

Property Risk Intelligence | React, Next.js, FastAPI, Python, SQLite

Mar. 2026

- Developed an OCR-based document analysis system to identify inconsistencies in property underwriting workflows, targeting risk detection in tax, title, and financial documents.
- Implemented rule-based classification and discrepancy detection logic to extract and validate structured financial data across documents.
- Validated system design and risk criteria through direct consultation with First American employees and industry underwriters during a 36-hour hackathon.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript

Frameworks: React, Next.js, Tailwind CSS, NumPy, FastAPI

Databases & Cloud: AWS (EC2, S3, Amplify, RDS), SQL

Developer Tools: Git, GitHub, Vercel, Railway, Docker

CERTIFICATIONS

AWS Certified Cloud Practitioner

Jan. 2026

- Validated foundational knowledge of AWS cloud architecture, core services (EC2, S3, RDS, IAM, VPC), and cloud principles (scalability, security, cost optimization, shared responsibility model).