Catherine Truong

catherinetruong.github.io
Software Engineer

catherinedaitruong@gmail.com
(XXX) XXX-XXXX
linkedin.com/in/catherinedaitruong

EDUCATION

University of California, Riverside　　　　　　　　　　　　　　　Riverside, CA
B.S. in Computer Engineering　　　　　　　　　　　　　　　*Sept. 2021 – June 2025*
Coursework: AI Algorithms, Database Management Systems, Data Structures & Algorithms, Discrete Structures, GPU Computing & Programming (CUDA), Integration Design, Logic Design, Operating Systems, Software Construction

EXPERIENCE

AWS She Builds Mentorship Program　　　　　　　　　　　　　　　Remote
Selected Mentee　　　　　　　　　　　　　　　*Aug. 2025 – Present*
- **Qualification**: Chosen for competitive AWS-led mentorship program; engaging in cloud projects and DevOps practices with AWS professionals to strengthen deployment, CI/CD, and career development & technical skills

First American Financial　　　　　　　　　　　　　　　Santa Ana, CA
Full-Stack Engineering Intern　　　　　　　　　　　　　　　*Sept. 2024 – June 2025*
- **Automation**: Enhanced and deployed an automated Jira update/release notes generator to reduce senior overhead by ~30%
- **DevOps**: Collaborated with senior engineers in planning sessions for Terraform, Kubernetes, and Docker adoption for MVP
- **.NET 9.0 Upgrade**: Upgraded NuGet dependencies and platform to .NET 9.0, improving overall system performance
- **Technical Documentation**: Updated 3 GitHub Pages platforms to include legacy documentation using MkDocs

First American Financial　　　　　　　　　　　　　　　Santa Ana, CA
Backend Software Engineering Intern　　　　　　　　　　　　　　　*Jun. 2024 – Aug. 2024*
- **AWS Optimization**: Curated AWS CloudWatch usage using Python and automated via Lambda & EventBridge, reducing costs by 78% and unused log groups by 88%, preventing future work load
- **HTTPS Compliance**: Automated HTTPS-conditional security compliance for 92% of AWS S3 buckets
- **Design Filtering**: Design & optimized a filter to determine log group necessity within less than 3 seconds per log group
- **Data Export**: Exported 4 JSON files to S3 tracking 600+ updated log groups involving 4 years worth of data

UCR Information & Technology Solutions　　　　　　　　　　　　　　　Riverside, CA
Student Information Systems Intern　　　　　　　　　　　　　　　*Apr. 2023 – Sept. 2024*
- **Database Queries**: Tested SQL queries for students and academic advisors to ensure data accuracy and reliability
- **UAT & Documentation**: Performed user acceptance testing on the UC student portal, identified usability issues, and developed 20+ HTML documentation pages with actionable feedback for improved accessibility
- **ServiceNow Support**: Resolved Canvas-related help desk tickets through ServiceNow, providing technical assistance daily
- **LTI Coordination**: Gathered integration details from 20+ Canvas LTI vendors to support future deployment planning

PROJECTS

Personal Finance Dashboard　　　　　　　　　　　*TypeScript, React, Tailwind, Recharts, Firebase Analytics*
- Built real-time income/expense tracker with interactive charts, reinforcing TypeScript debugging skills and improving ability to design scalable state management systems

CamJam　　　　　　　　　　　*TypeScript, React Native, Firebase, Jest*
- Collaborated to build Firebase authentication and custom in-app camera & photo upload; centralized state management reduced onboarding time 30% and improved cross-device reliability

Smart Glasses (Senior Capstone)　　　　　　　　　　　*C++, Python, KNN*
- Implemented KNN-based live color detection; developed and trained small language model (SLM) on various colors

Airline Management System　　　　　　　　　　　*Java, PostgreSQL*
- Implemented 15+ dynamic SQL queries for real-time operations while ensuring modular design for role-based management system

SteamDB, Steam Dashboard　　　　　　　　　　　*HTML/CSS, Figma, cuDF, Python*
- Designed UI using Figma to improve usability and UX & optimized cuDF queries to process 50,000+ games in under 1s

SKILLS

Languages: C++, HTML/CSS, JavaScript, SQL, Swift, **Python**, TypeScript
Frameworks/Libraries: Angular, React, React Native, Recharts, Tailwind
Cloud/DevOps: AWS, Azure, Docker, Firebase, **Git**
Tools/Platforms: Confluence, Figma, Jira, Microsoft Suite, Miro, ServiceNow, Visual Studio