Lam Anh Truong

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Education

George Mason University — Fairfax, VA
Master of Science, Computer Science — *January 2026 – June 2027*
Courseworks: *Analysis of Algorithms, Software Design and Architecture, Object Oriented*

California State University, East Bay — Hayward, CA
Bachelor of Science, Computer Science, GPA: 3.5/4.0 — *August 2019 – May 2023*
Courseworks: *Data Structures and Algorithms, Computer Architecture, Operating Systems Software Engineering, Website Development, Artificial Intelligence, Computer Networks and Security*

Experience

Software Data Engineer — Oct 2023 – June 2025
Bay Atlantic University — *Washington, DC*

- Owned all reporting services across the SIS (**Python/SQLAlchemy**) and LMS (**Node js/Sequelize**), processing **4K+** student records, ensuring **100%** data integrity, and generating **50+ types** of real time operational reports on **PostgreSQL** (**Amazon RDS**) and **AWS Lambda**
- Developed a **natural language to SQL** query engine using **Ollama** and **DeepSeek**, leveraging a **RAG pipeline** to provide staff with real time, custom report generation from the database.

Full Stack Software Developer — Feb 2023 – September 2023
OpenKnect — *Baltimore, MD*

- Led **7 people** to integrate job posting platforms for **10 clients** using **Agile** methodology.
- Developed of a modular application serving **10K+** active users, increasing user engagement by **20%** through UI components using **React** and **Relay**.
- Architected an event driven **Google Cloud Platform** backend using **Pub/Sub**, **Cloud Functions**, and **Cloud Run** with **Firestore** to automate **500+ monthly jobs**, boosting posting efficiency by **80%**.

C++, Data Structures and Algorithms Tutor — Oct 2020 – Dec 2022
STEM Lab, Califorania State University, East Bay — *Hayward, CA*

- Instructed **C++** data structures and algorithms, emphasizing efficiency, complexity, and engineering best practices; achieved an **80%** success rate among **300+ students** with an average GPA of 3.6/4.0.

Projects

Real Time Conversation Coaching - Microsoft Hackathon — Feb 2026 – Present

- **Next.js/tRPC** conversation academy leveraging **Patriot AI**, **Azure OpenAI**, and **ElevenLabs** for real-time vision coaching and voice feedback, powered by a **Supabase pgvector/HNSW** engine for high-dimensional similarity matching and gamified SIQ scoring.

AI Financial Platform - Capital One Hackathon | *Snowflake, Gemini, React* — Jan 2026 – Feb 2026

- Architected a voice-enabled financial platform using **Gemini**, **Claude 3.7**, and **ElevenLabs** with **Snowflake ML/Pandas** forecasting, deploying **Node.js** microservices via **Docker/Terraform** on **Vultr** with **Solana** auditing and **Supabase/MongoDB** storage.

Cookit E-commerce Platform | *Node.js, Next.js, React, MongoDB, Stripe, GCP* — June 2023 – December 2024

- Engineered a full-stack platform generating **$1K+** revenue and **40%** growth using **Next.js**, **Tailwind**, **Prisma**, **PostgreSQL**, **Stripe**, and **NextAuth**, optimizing real-time state management via **React Query**.

Technical Skills

Languages: JavaScript, TypeScript, Solidity, Python, C++, C, Java, SQL, HTML/CSS, R
Frameworks: Next.js, React, Ethers.js, Thirdweb, Flutter, Node.js, Express
Developer Tools: Firebase, MongoDB, PostgreSQL, Google Cloud Platform, AWS, Ubuntu, Linux, Git, GitHub, Redux, React Query, Sanity.io, GraphQL, Prisma, Tailwind CSS, Server Socket
Certificates: Google UX Design, Google Cloud Developer, Google Cloud Digital Leader Training, Meta Front-End Developer, AWS Certified Solutions Architect - Associate, Google IT Automation with Python