

TUNG D. NGUYEN

2659 Ellendale Place, LA, CA | (213) 574-9998 | tungtorres23@gmail.com | <https://www.linkedin.com/in/tung-nguyen-2307eda/>

EDUCATION

University of Southern California

August 2024-Present

Master of Science in Computer Science - GPA 4.0 / 4.0

VinUniversity

September 2020-June 2024

Bachelor of Science in Computer Science - GPA 3.64 / 4.0 (3.94 / 4.0 Major)

SKILLS

Programming Languages: Java, Python, C++, C, JavaScript, SQL

Frameworks: Pytorch, TensorFlow, Django, Numpy, Scikit-learn, Matplotlib, NodeJs, ExpressJs, ReactJs, Spring, Spring Boot

Cloud & Devops: Docker, Jenkins, Kafka, Kubernetes, AWS (S3, RDS, EC2, Lambda), Azure (VMs, SQL Database, Functions)

EXPERIENCE

AI/Software Engineer

November 2023-August 2024

VinAI - Full-time, Hanoi, Vietnam

- Built a scalable data management system for AI models using Django, SQLite, and React.js, enabling seamless interaction between the frontend and backend while ensuring efficient data storage and retrieval. Integrated advanced filtering and search capabilities for improved user experience.
- Deployed and optimized AI models using AWS, BentoML, ONNX, and Milvus (vector database) within Dockerized environments, ensuring smooth scalability and low-latency predictions. Leveraged AWS services for CI/CD pipelines and infrastructure management to streamline deployment workflows.
- Implemented versioning for AI models and data pipelines to track updates and improve reproducibility, supporting the integration of multiple AI frameworks into a unified platform.

Software Engineer Intern

December 2022-November 2023

National Australia Bank - Hanoi, Vietnam

- Create and manage SPAs using React and TypeScript, delivering dynamic, responsive interfaces within a micro-frontend architecture. Leverage JSON and UI schemas to adapt form rendering based on user workflows and application needs.
- Develop Backend for Frontend (BFF) solutions with Node.js, Express, and GraphQL, enhancing data exchange between frontend and backend. Simulate server behavior using tools like Mountebank to support frontend testing and development.
- Designed to create fraud information systems for National Australia bank with Spring, Spring Boot, ReactJs, NodeJs, ExpressJs, GraphQL, PostgreSQL, deployment/CICD with Jenkins, Docker and AWS
- Deployed API that integrate with database that correspond with the bank security measure with Spring/Spring Boot

Software Engineer Intern

September 2021-June 2022

VinUniversity – IT Department - Intern, Hanoi, Vietnam

- Designed and managed the university website using WordPress, PHP, HTML, CSS, and JavaScript, ensuring a responsive and user-friendly interface.
- Developed a custom tool integrated with Outlook that allowed users to select website cards (e.g., greeting cards) and send them via email for occasions, enhancing student-faculty interactions.
- Streamlined website functionalities by implementing plugins and optimizing code for better performance and usability.

ACADEMIC PROJECTS – GIT: [TUNGND237](https://github.com/TUNGND237)

AI Data Management System

- Applying curriculum learning in weakly supervised sound source separation with Conv-Tasnet and other architecture
- Developed a data management system for AI models using Django, SQLite, and React.js.
- Implemented similarity search functionality with Milvus for efficient high-dimensional image retrieval.
- Designed interactive 3D data visualization using Plotly to explore embeddings.
- Deployed the system with AWS, Docker, BentoML, and ONNX for scalability and efficiency.

Blockchain based Voting application

- Developed a blockchain-based decentralized voting system using the MERN stack (MongoDB, Express.js, React.js, Node.js).
- Designed and deployed smart contracts on Ethereum and Solana blockchains to ensure transparency and security.
- Built and integrated a user-friendly frontend and scalable backend for seamless voting interactions.
- Enhanced system trust by implementing tamper-proof and transparent voting logic.

Certifications: [AWS Certified Cloud Practitioner](#)