

Xuan Duy Anh Nguyen

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EDUCATION

San Francisco State University

Degree, Master of Computer Science.

GPA: 4.0

Coursework: Advanced Databases, Advanced Computer Networks, Analysis of Algorithms II, Software Engineering.

University of Science and Technology of Hanoi

Degree, Bachelor of Information Communication and Technology.

San Francisco, CA

Aug 2023 - Expected Jul 2025

Hanoi, Vietnam

Aug 2017 - Dec 2020

WORK EXPERIENCE

San Francisco State University

Research Assistant - Software Engineer (Part Time)

San Francisco, CA

Feb 2025 – Present

- Utilize Typescript, Express.js, MongoDB, PostgreSQL, Docker, and AWS to develop RESTful APIs for YouDescribeX, an AI-driven platform providing audio descriptions for YouTube videos, enhancing accessibility for visually impaired users worldwide.
- Integrate OpenAI Model to rank videos based on relevance to search keywords, improving search accuracy by 40% and enhancing user experience, which led to a 30% increase in new user acquisition.
- Co-author of a paper titled “YouDescribe: Bridging AI Efficiency and Human Insight for Scalable Audio Description”, accepted at the CHIWORK 2025 Late-Breaking Works (LBWs) track conference.

Famtech., JSC

Software Engineer (Full Time)

Hanoi, Vietnam

Mar 2022 – Mar 2023

- Developed scalable, high-performance APIs using Java, Spring Boot and Hibernate, improving the speed by 30% and enhancing the reliability of Luxuria, a social media platform tailored for luxury shopping enthusiasts.
- Implemented Prometheus and Grafana for system monitoring and visualization, enabling real-time performance tracking and reducing mean time to detection (MTTD) of issues by 40%.
- Participated in designing and optimizing databases for scalability and efficiency and applied best practices in database management and maintenance leading to a 20% improvement in API response times.

CMC Global

Software Engineer (Full Time)

Hanoi, Vietnam

Aug 2021 – Mar 2022

- Researched and implemented a Fan-out Pattern for Serverless Architecture in AWS (AWS Lambda, AWS API Gateway, AWS SQS, AWS SNS), resulting in a 40% improvement in data synchronization speed and reducing integration errors by 25% across multiple eCommerce platforms.
- Utilized Infrastructure as Code (IaC) using Terraform for the rapid and consistent deployment of infrastructure, resulting in a 25% decrease in infrastructure setup time.
- Developed and maintained AWS Lambda functions using Node.js, optimizing performance by reducing cold start times by 80% through the implementation of provisioned concurrency technique in AWS Lambda.
- Collaborated within a Scrum Team to implement program design, code reviews, and testing phases following the Agile Software Development Lifecycle, ensuring timely delivery of project milestones.

VMO Holdings

Software Engineer (Full Time)

Hanoi, Vietnam

Aug 2020 – Aug 2021

- Utilized Javascript, Express.js, MySQL, Sequelize ORM, Docker and AWS for development of RESTful APIs and cron jobs in an innovative platform aiming to revolutionize the Media & Entertainment industry by reshaping content engagement among Providers, Distribution Platforms, and Viewers.
- Developed a high-performance backend API with NestJS, MongoDB, AWS, and Docker, resulting in a 20% user increase within six months for a promising video streaming mobile app.
- Wrote reusable unit tests to ensure quality control resulting in a 30% reduction of user bug tickets.

CERTIFICATE

AWS Certified Solutions Architect - Associate

AWS Certified Developer - Associate

TECHNICAL SKILLS

Languages: Javascript, Typescript, Python, Java, Go, C++, HTML, CSS.

Technologies & Frameworks: Node.js, Express.js, NestJS, Koa.js, React, Docker, RabbitMQ, Redis, AWS, Google Cloud, MongoDB, NoSQL, MySQL, PostgreSQL, Graph Database, Neo4J, Redux, Git, CI/CD, Agile, Kafka.

Tools: Jenkins, Github, Gitlab, Bitbucket, Jira, Kubernetes (K8s), Terraform.