

# Thao Vu

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## SUMMARY

**Skilled Software Developer** proficient in **PHP**, **C#**, and **object-oriented programming**. Experienced in **full-stack development**, **CI/CD pipeline** optimization, and cloud-based data-driven applications. Successful team collaborator on innovative systems looking for entry-level opportunities in cutting-edge software projects.

## EDUCATION

**The University of Texas at Dallas**  
*Bachelor of Science in Computer Science*  
• **Relevant Coursework:** Data Structures, Algorithms, Software Engineering, Operating Systems, Database Systems, AI, Computer Networks, Data Security

Richardson, TX  
Aug 2021 – Dec 2024

## EXPERIENCE

**Cybersecurity & AI Risk Analyst Extern**  
*National Research Group*  
• Enhanced AI model strength and clarity using **TensorFlow** and **OpenAI API**, aligned with **NIST Cybersecurity Framework**.  
• Used **object-oriented programming** to create **Python** tools for industry-standard analysis and visualization.

Jul – Aug 2024  
*TensorFlow, OpenAI API, Python, NIST Cybersecurity Framework*

**AWS Cloud Intern**  
*OneData Software Solutions*  
• Utilized **object-oriented programming** to improve **machine learning model** deployment using **AWS SageMaker** and **Java**, reducing processing time by 25%.  
• Optimized cloud infrastructure and implemented **DevOps** practices with **AWS tools** in collaboration with cross-functional teams.

Jun – Aug 2024  
*Docker, Java, AWS Tools, DevOps*

## PROJECTS

**Clinical Data Capture System**  
*Healthcare Data Management Solutions*  
• Developed a web application using **Flask** and **SQLAlchemy** to streamline patient data management, enabling dynamic **CRUD** functionality, improving data accessibility, and reducing errors by 15%.  
• Employed **object-oriented programming** to design modular database interaction layers, enhancing the application’s maintainability and scalability.

Dec 2024  
*Python, Flask, SQLite, HTML/CSS*

**5G Data Analytic Pipeline**  
*API Integration Techniques*  
• Engineered a scalable 5G data pipeline using **Apache Kafka** and **AWS Glue**, improving real-time data processing by 25%.  
• Incorporated **object-oriented programming** techniques in **Spark** for modular and reusable processing functions.

Aug – Dec 2024  
*Apache Kafka, AWS Glue, Apache Spark, Grafana*

## CERTIFICATIONS

**Certificate in Information Assurance**  
*University of Texas at Dallas*

Dec 2024

**AWS Certified Cloud Practitioner**  
*Amazon Web Services (AWS)*

Aug 2024

## SKILLS

**Languages:** Java, Python, C++, SQL (Postgres), JavaScript, HTML/CSS, PHP, C#, Swift, TypeScript, XML  
**Frameworks:** React, Node.js, Flask, JUnit, WordPress, Material-UI, FastAPI  
**Developer Tools:** Git, Docker, TravisCI, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse  
**Soft Skills:** Problem-solving, Collaboration, Communication, Time management, Adaptability, Critical thinking, Leadership, Teamwork  
**Quality Assurance:** Test-driven development (TDD), Automated testing, Manual testing, Quality control  
**Project Management:** Agile methodology, Scrum, Kanban, CI/CD, Cloud computing, Debugging, Data analysis, Software development lifecycle, Web development

References available upon request.