

PHUC NGUYEN

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EDUCATION

George Mason University, B.S. in Computer Science, Expected May 2025

Fairfax, VA

- Relevant Coursework: Introduction to Database, Data Mining, Data Structures, Computer Systems and Programming, Operating Systems, Software Engineering, Networking, Introduction to Artificial Intelligence, Mobile Application Development
- Skills: Programming (SQL, Python, Java, Kotlin, C++, C), Database Management (PostgreSQL, MongoDB, SQLite), Tools & Technologies (Excel, JIRA, Postman, Docker, AWS), Version Control & Documentation (Git, Wiki documentation), Web Development (HTML, CSS, JavaScript, TypeScript, React.js, Next.js, Flask, Express.js, NestJS, Django)

EXPERIENCE

Quokka.io

Arlington, VA

Software Engineering R&D Intern

June 2024 – August 2024

- Developed and optimized back-end API services using NestJS and Koa, improving system efficiency and boosting customer satisfaction by 20%
- Conducted unit and end-to-end testing using Jest and Supertest, ensuring data integrity and achieving 80% accuracy in validation services
- Designed and implemented JSON schema validation using class-validator, improving API data consistency and expanding validation coverage by 50%
- Utilized Docker for containerization, ensuring consistent deployment across development, testing, and production
- Identified and resolved API inefficiencies, optimizing data processing and request handling, improving system reliability

George Mason University- College of Engineering and Computing

Fairfax, VA

Teaching Assistant for Object-Oriented Programming Course

August 2023 – December 2023

- Supported 50+ students in Object-Oriented Programming (OOP), data structures, debugging, and testing, improving their problem-solving skills
- Assisted students in implementing assignments and projects, providing targeted guidance to enhance their coding proficiency and understanding of OOP principles
- Instructed students in using Java IDEs (IntelliJ IDEA, Eclipse, NetBeans) to develop structured, maintainable, and efficient code

PROJECTS

Gather Mason

- Developed a collaborative event platform using Node.js, Express, and MongoDB, implementing efficient data processing workflows for event management
- Designed automated data handling through CRUD operations, ensuring seamless data retrieval, validation, and storage
- Integrated OpenAI's API for data categorization and search optimization, enhancing system efficiency and discoverability
- Implemented automated notifications using Nodemailer, ensuring real-time user engagement and improving system reliability
- Streamlined event tracking and reporting through structured database queries, improving data integrity and retrieval

Amazing Email Organizer

- Developed a full-stack task management app using Flask and React, enabling users to organize actionable emails into tasks and sync deadlines with Google Calendar
- Integrated Google OAuth2 and Gmail API for secure account linking and real-time retrieval of actionable emails with dynamic session and token management
- Leveraged OpenAI's GPT-3.5 API to analyze and categorize email content, auto-generating structured tasks for improved productivity
- Implemented a hybrid asynchronous system using Celery, Redis, and Flask-Scheduler to balance real-time email processing with scheduled checks, ensuring no actionable email is missed