

DUKE NGUYEN

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EDUCATION

University of Virginia

Bachelor of Arts in Computer Science

Aug. 2023 – May 2026

Charlottesville, VA

EXPERIENCE

Software Engineering Intern

Torrential Data Solutions, Inc.

May 2024 – Present

Virginia Beach, VA

- Constructed and deployed a web interface for a core security application, improving usability and streamlining processes for internal users by introducing a clean, intuitive design.
- Developed and executed 50+ automated tests for backend OData API endpoints using custom test scripts, identifying critical edge cases and minimizing manual testing effort.
- Addressed deprecations for 15+ components and resolved 20+ bugs during frontend migration from Vue 2 to Vue 3, addressing compatibility issues and ensuring a smooth transition.
- Designed and implemented a tagging feature, increasing efficiency for users handling large file batches, reducing organization time by 70%.
- Performed end-to-end testing on completed frontend build, identifying and fixing 10 critical bugs, improving stability and user satisfaction.

PROJECTS

Music Production Project Management App | Python, JavaScript, Heroku, PostgreSQL

Dec. 2024

- Led design and development of over 65% of app's UI templates, ensuring a cohesive user experience with a clean, intuitive design.
- Diagnosed and resolved deployment issues on Heroku involving 10+ migration files, enabling seamless application functionality.
- Headed a team of five as Scrum Master, guiding team through project requirements and deadlines via Agile methodologies.

Course Reviews App | Java, JavaFX, Hibernate, SQLite, Git

May 2024

- Built an application to manage CRUD operations for UVA course reviews, streamlining data retrieval and submission processes.
- Created 10+ responsive UI scenes with JavaFX, improving navigation speed and user engagement for course review submissions.
- Integrated Hibernate with SQLite and authored 30+ automated tests to ensure robust performance and application reliability.

Volleyball Rotations App | React.js, Python, Git

Jan. 2024

- Collaborated in a team of 3 to develop a visualization app for volleyball court rotations, focusing on responsive front-end features and usability testing.
- Assisted in backend integration using Python to implement secure user authentication and efficient data management.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript, HTML/CSS, SQL

Frameworks: React, Vue, Django, JUnit, Bootstrap

Tools: Git, Docker, Apache, Node, AWS, Kubernetes, Google Cloud

Databases: PostgreSQL, SQLite, MySQL, DynamoDB

LEADERSHIP AND ACTIVITIES

Eagle Scout | Boy Scouts of America - Troop 1845

Captain | Vietnamese Student Association Volleyball Team

Middle Blocker | UVA Club Volleyball Team