HOANG NGUYEN

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EDUCATION

Boston University   Boston, MA
Master of Science in Computer Science   *Expected May 2027*

Purdue University   West Lafayette, IN
Bachelor of Science in Computer Science (Semester Honors)   *Dec 2024*

EXPERIENCE

FPT Software   Vietnam
Software Engineer Intern | Java, TypeScript   *May 2024 – Aug 2024*
- Delivered backend integration for the TradeFlat supply chain finance app using **Keycloak**, **Jmix**, and **React**.
- Saved **over \$6,000** annually by replacing a paid PDF processing service with a custom JavaScript library extending PDF.js using TypeScript.
- Built a secure SpringBoot REST API with token-based and role-based authentication for compliant data exports.
- Implemented comprehensive audit logging and access-control enforcement in the REST API to meet financial regulatory and compliance requirements.

Northwood Studios   Remote (Poland)
Software Engineer Intern | Python   *May 2025 – Aug 2025*
- Accelerated update response times for the SCP: Secret Lab Wiki by **20%** through a Python program that uses the MediaWiki API to automatically detect and notify contributors of new game-related content in real time.
- Improved cross-team communication by **62%** by building a Python-based real-time translation service leveraging the Google Translation API to seamlessly convert Russian and Polish into English.
- Enhanced mobile usability by consolidating and restructuring page layouts with responsive HTML and CSS, resulting in a cleaner, faster user experience.

CMC Global   Vietnam
Software Engineer Intern | Java   *May 2022 – Aug 2022*
- Engineered a Spring Boot backend to process **20,000** user feedback forms, stored them in a SQL database, and retrieve them based on parameters.
- Bolstered backend reliability by **designing JUnit tests**, uncovered and resolved 12+ logic and schema mismatches.
- Fortified data integrity by standardizing entity relationships across multiple databases and authoring detailed documentation of naming conventions and schema mappings.

PROJECTS

PredictPurdue | *Python, Flask, React, SQL, BeautifulSoup*   Jan 2024 – May 2024
- Predicted rental prices near Purdue University with **85%** accuracy using a NumPy–Pandas linear regression model.
- Developed an automated scraping pipeline that updates **3,000+** rental listings per week from major rental sites.
- Integrated caching for recent rental predictions, reducing prediction latency by 30% .
- Delivered real-time predictions using a web app with Flask backend and React frontend, used by **2000+** users.

Excel to Wiki Upload | *C++, Flask, JavaScript*   May 2021 – Jun 2021
- Cut table formatting time by 70% for **1,000+** monthly users with a C++ MediaWiki-to-Excel table converter.
- Designed a web interface (JavaScript + Flask) for seamless upload and file conversion with 100% success rate.
- Handled **10,000+** monthly requests and 1,000+ unique users by generating downloadable .txt or .xlsx outputs.

PurdueHub | *React.js, Node.js, SQL, AWS*   Oct 2020
- Launched PurdueHub, an engagement portal where students can discover, and discuss campus events.
- **Led** a 5-person Scrum team to deliver features like event creation, comments, and "friends attending" lists.
- Built a **full-stack** campus events site supporting 500+ listings with real-time React updates.
- Implemented login, registration, and admin functionalities with **Node.js** backend.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Java, Python, C++, SQL, HTML/CSS
Frameworks and Tools: React.js, Flask, Spring, AWS, Pandas, Hibernate, Qiskit, JUnit, TensorFlow
Relevant coursework: Data Structure, Algorithms, Machine Learning, Systems Programming, OOP