Duong (Dylan) Nguyen

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EDUCATION

Michigan State University – MI, USA *Graduation: May 2025*
Bachelor of Science Degree in Computer Science (GPA: 3.83)
- **Minor**: Game Design and Development
- **Awards**: Honors College, Dean's List
- **Relevant coursework**: Introduction to Programming I & II, Discrete Structures, Algorithms and Data Structures, Object-Oriented Programming Design, Games & Interactivity

EXPERIENCE

Dassault Systèmes DELMIA – Auburn Hills, MI, USA *May 2023 – Present*
Research and Development Web Application Intern
- Worked in a team of 3 to optimize and develop new scripts to automate error checking, reporting and fixing to aid with the compilation of the main application codebase, reducing run times by up to 99% in some processes.
- Fixed a critical bug in one of the testing processes that was sometimes deleting 30% of the reporting database, which improved the number of test case passes by 45%.
- Created batch utility scripts to accelerate common sequences of tasks for personal and team use, speeding up workflows by 20%.
- Refactored several outdated and inefficient scripts, keeping functionality while increasing legibility by 80%.
- **Skills**: PHP, Java, HTML/CSS/Javascript, Batch scripting, MySQL, XAMPP

Michigan State University Information Services – East Lansing, MI, USA *Jan 2023 – May 2023*
Student Web Developer Intern
- Maintained and updated functionalities for 10+ web applications, including analytics, security, and front-end templates, focusing on user experience, performance, and design.
- Responded to 20+ user tickets to resolve technical issues and implement requested features on various school websites.
- **Skills**: HTML/CSS/Javascript, PHP, MySQL, Docker, Drupal, Devilbox

AISolutions JSC – Hanoi, VN *Jun 2022 – Aug 2022*
Backend Developer Intern
- Adapted the open-source database management system Mayan EDMS for internal use by adding new features such as revamping search queries and operators, authentication procedures, comments, and notifications.
- Optimized and developed equivalent REST API endpoints for a mobile application, achieving a 30% reduction in response times.
- Successfully transitioned the project from development to production, resulting in daily usage by up to 60 employees.
- **Skills**: Python, Django, PostgreSQL, Docker, Postman

PROJECTS

Payback Pal – Personal Project *Mar 2023*
- Developed a user-friendly web application for tracking and managing debts, using a flexible system to allow users to seamlessly transition between connecting with other users and creating temporary avatars for tracking.
- Implemented easy to use features and clean visuals to make the process intuitive and convenient, applying game design principles.
- **Skills**: HTML/CSS/Javascript, jQuery, Bootstrap, Google Firebase

Discord Chatbot – Personal Project *Jan 2021*
- Created a Discord chatbot using Python and CROM API, a web scraper for getting data from a collaborative writing website, for use in a community Discord server of around 5000 users.
- Implemented features such as fetching articles and translations from the website and displaying user statistics, increasing daily site readership by 200%.
- **Skills**: Python, GraphQL

ACTIVITIES

Vietnamese Culture Union – Michigan State University *Nov 2021 – Present*
Graphic Designer: Design 40+ graphic materials, such as social media posts, stories, posters, banners, and merchandise, to promote Vietnamese culture and events on campus.

GreenAms 6520 Robotics Team – Hanoi Amsterdam High School *Aug 2017 – Jul 2020*
Programming Lead: Led and trained 20+ programmers to code industrial-grade robots for the international FIRST Robotics Competition using Java and WPILib library, as well as implemented features such as OpenCV computer vision and PID controls.

QUALITIES

Languages & Tools: Python, Java, C++, HTML/CSS/JavaScript, SQL, PHP, Django, Drupal, Node.js, jQuery, MySQL/PostgreSQL

Software: Visual Studio Code | Clickteam Fusion 2.5 | Blender | GameMaker Studio 2 | Unity | Postman | Github | Docker | Adobe Suite (Illustrator, After Effects)

Skills & Interests: Backend/Frontend/Fullstack Web Development, Game Development, Machine Learning, Robotics, Guitar, Band Performances, Music Production