

# Duong (Dylan) Nguyen

+1-517-980-5218 | [nguye958@msu.edu](mailto:nguye958@msu.edu) | [github.com/loop-index](https://github.com/loop-index) | [linkedin.com/in/duongtn](https://linkedin.com/in/duongtn) | [loop-index.com](https://loop-index.com)

## EDUCATION

### Michigan State University – MI, USA

Graduation: May 2025

*Bachelor of Science Degree in Computer Science (GPA: 3.84)*

- **Minor:** Game Design and Development
- **Awards:** Honors College, Dean's List
- **Relevant coursework:** Discrete Math, Algorithms and Data Structures, Object-Oriented Programming Design, Games & Interactivity, Computer Architecture, Database Systems, Programming Language Design

## EXPERIENCE

### Dassault Systèmes DELMIA – MI, USA

May 2023 – Present

*RnD Web Development Intern*

- Improved error response times by 80% through the development of user-friendly PHP scripts for automated error reporting and testing in web applications, using Regex and language parsing techniques.
- Optimized script performance significantly, achieving up to a 90% speed boost and reducing file sizes by 70%.
- Increased operational efficiency by 40% by redesigning search APIs and user interfaces within the internal RobotLib Management and Request content management application, eliminating workflow bottlenecks.
- Led the development of a new internal web application, utilizing an Apache-MySQL stack and RequireJS to monitor employee performance under an Agile workflow, providing valuable real-time insights.

### Michigan State University Information Services – MI, USA

Jan 2023 – May 2023

*Web Development Intern*

- Maintained and updated functionalities for 10+ Drupal web applications on a LAMP stack, 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.

### AI Solutions JSC – Hanoi, VN

Jun 2022 – Aug 2022

*Backend Development Intern*

- Adapted the Django open-source database management system Mayan EDMS by adding new features such as revamping SQL search queries and operators, hashing authentication procedures, comments, and notifications, successfully bringing the project to official internal use with daily usage of up to 60 employees.
- Developed and optimized equivalent REST API endpoints for the mobile version, achieving a 30% reduction in response time.

## PERSONAL PROJECTS

### DSP Mockup

April 2023 - Present

- Researched and fine-tuned machine learning models to optimize ad bidding strategies for user categories with 99% accuracy based on the IPinYou dataset, using Python, Pandas and scikit-learn.
- Built an ad server with Python Flask and MySQL to manage and store campaign and ad data, and to serve mockup ads through a RESTful API.

### Payback Pal

Mar 2023 - Present

- Developed a user-friendly web application for tracking and managing debts using jQuery and Bootstrap, with 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.

### Discord Chatbot

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 7500 users.
- Implemented features such as fetching articles and translations from the website and displaying user statistics, increasing daily site readership by 200% and aided multiple translators and writers.

## ACTIVITIES

### Vietnamese Culture Union – Michigan State University

Nov 2021 – Present

*Graphic Designer:* Designed 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, implementing features such as OpenCV computer vision and PID controls.

## SKILLS

**Languages:** Python, Java, C++, HTML/CSS/JavaScript, PHP, SQL/GraphQL, C, ARM Assembly

**Frameworks & Tools:** Django, Drupal, Node.js, jQuery, Google Firebase, MySQL/PostgreSQL, scikit-learn, Pandas

**Software:** Clickteam Fusion 2.5 | Blender | GameMaker Studio 2 | Unity | Postman | GitHub | Docker | Devilbox/XAMPP