

Dylan (Duong) Nguyen

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EDUCATION

Michigan State University, Honors College

Bachelor of Science in Computer Science

GPA: 3.86/4.0

Aug. 2021 – Expected May 2025

TECHNICAL SKILLS

Languages: Python, JavaScript/Typescript, PHP, SQL, C/C++, Java, Rust, Go, Elixir

Libraries: React/React Native, Next.js, Flask, Node.js, Vite, Django, Spring Boot, Laravel, Bootstrap, TailwindCSS

Tools: Docker, Amazon Web Services (AWS), Google Cloud Platform, MySQL/PostgreSQL, MongoDB, Firebase, Git

EXPERIENCE

Software Engineering Intern

May 2024 – Aug 2024

Dassault Systemes

Detroit, MI

- Onboarded 2 new team members on PHP and SQL development, providing guidance on best practices and troubleshooting legacy projects, and facilitating communication between the team and engineering managers
- Assembled and owned an automated PHP data pipeline to parse Excel spreadsheets and generate interactive charts and dashboards, **raising task completion across the team by 15%**
- Initiated the migration of services to Docker containers with the latest PHP version, ensuring configuration consistency and patching vulnerabilities while preserving backwards compatibility

Software Engineering Intern

May 2023 – Apr 2024

Dassault Systemes

Detroit, MI

- Developed 20+ backend API endpoints in PHP and corresponding front end features in Javascript for an internal 3D model library, **reducing load times by 70%** using SQL techniques such as caching and query optimization
- Architected a PHP service to asynchronously generate image captures of complex 3D models using WebGL technologies, **speeding up user workflow by 30%**
- Enhanced the application testing suite with PHP scripts to aggregate error reports and notify maintainers, **achieving immediate incident response in 90% of cases**

Software Engineering Intern

Jan. 2023 – May 2023

Michigan State University

Lansing, MI

- Upgraded 10+ Drupal websites with new PHP code and libraries, improving analytics, enhancing caching mechanisms and strengthening security against new vulnerabilities, **completing 30+ request tickets**

Web Development Intern

Jun. 2022 – Aug. 2022

AI Solutions JSC

Hanoi, Vietnam

- Led a team of 3 to customize a document management program in Django, PostgreSQL and Redis, **servicing 60+ employees and hosting 4000+ documents**, overhauling 15+ backend API endpoints to improve functionalities and response times

PROJECTS

Syllabus Parser | *React.js, Java, Spring Boot, RabbitMQ, Python, SpaCy, OpenAI*

- Designed a web application to parse PDFs into iCalendar format for the MHacks Hackathon, utilizing Spring Boot for the API backend and RabbitMQ for distributing tasks to Python workers running NLP analysis

Home Linux Server | *Linux, Docker, Nginx, Cloudflare, Prometheus, Github Actions*

- Deployed a home server running Linux to host multiple web applications, utilizing Docker for containerization, Nginx and Cloudflare for networking, and Github Actions for automated Continuous Integration, cutting 100% cloud hosting costs

LeetGud | *Flask, SocketIO, GraphQL, Google Gemini, OpenAI APIs*

- Built a full-stack web interview simulator with a live code editor, audio recognition and voice synthesis for Google's AI Hackathon, utilizing Gemini Pro and OpenAI Whisper models, as well as LeetCode API for code execution

ACTIVITIES

CSE 477 - Web Application Development | *Teaching Assistant*

- Assisting 150+ students with building Flask apps and deploying to Google Cloud Platform

Imagine Software @ MSU | *Software Developer*

- Developing an internal member dashboard in React to manage member signups, community events and project tracking

SCP Foundation Wiki - Vietnamese Branch | *Master Administrator, Author, Translator, International Ambassador*

- Collaborated in a team to expand a niche online storytelling and world-building community to 10000+ Discord and Facebook members
- Spearheaded the development of the wiki infrastructure, including technical templates, guides, rules, and essays, culminating in an active user base with 2000+ translation projects, 200+ original works, extensive moderation, and quality control