

Jason Nguyen

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EDUCATION

Lawrence Technological University

Bachelor of Science in Computer Science

Southfield, MI

Expected Graduation: May 2026

- Cumulative GPA: 3.40
- Dean's List: 2 Semesters

WORK EXPERIENCE

BorgWarner Inc.

IT Infrastructure Automation Intern

Auburn Hills, MI

Jun 2025 – Present

- Implemented automated cloud backup infrastructure and solutions using Terraform and Azure, improving data protection, reducing manual intervention by 30%, and enabling secure and scalable backups for SQL Servers and PostgreSQL workloads
- Develop infrastructure-as-code for cloud resources using Terraform and Ansible, streamlining provisioning, configuration, and creation of Azure resources, enabling scalable infrastructure deployment across multiple regions
- Built and maintain cloud automation and CI/CD pipelines using Terraform Cloud, Red Hat Ansible, GitHub, and Azure, accelerating deployment cycles, improving reliability in production, and reducing costs by 15%
- Collaborate with global IT teams to standardize cloud infrastructure automation practices and drive operational efficiency

Lawrence Technological University

Research Assistant

Southfield, MI

Feb 2025 – Present

- Conducts experiments with the Unitree Go2, using ROS, collecting sensor data in Excel to simulate applications in condition monitoring with Professor Wisam Bukaita to research robotic perception using LiDAR for mapping and obstacle avoidance
- Researching on the personalized real-to-sim to real-navigation with Gaussian Splats from a mobile device, with Department Chair of Math and Computer Science, Eric Martinson, on the temporal side of scanned environments

Student Assistant

May 2025 – Jul 2025

- Assist 12+ students in designing 3D models using CAD and facilitate operation of 3D prints to fabricate physical prototypes
- Guides 20+ students in programming Python through coding challenges and robotic simulations

Teaching Assistant

Jan 2025 – May 2025

- Supports 40+ students in understanding concepts of Calculus I & II, including limits, derivatives, integrals, and sequences
- Leads lab sessions introducing statistical analysis and data visualization using R programming on how it compiles and executes

The Blue Times Student Newsletter

President

Southfield, MI

Nov 2023 – Present

- Compiles reports that focus on giving opportunities, updates, and insights for Lawrence Tech students and faculty
- Coordinates team meetings, editorial calendars, and contributor deadlines to maintain consistent publication cycles
- Revamped the newsletter's content strategy and design layout, resulting in a 50% increase in student readership and engagement

PROJECTS

ROS Mobile Robot

- Conducted extensive field testing to validate mapping accuracy, path tracking stability, and obstacle response
- Integrated LiDAR sensor and published data to implement real-time obstacle detection and avoidance for dynamic environments, and is capable of autonomously tracking a blue line using computer vision and ROS using Python and C++

Vending Machine Simulator

- Designed a vending machine simulation in C++ with mode locking and password authorization; service and customer mode
- Programmed inventory management of drinks and transaction logic to handle customer payments and calculate change

AI Study Planner

- Developed a web application that generates personalized study schedules for college students using AI-driven task prioritization
- Designed and built RESTful APIs in Spring Boot to handle task creation, prioritization, and calendar scheduling logic
- Built an interactive React.js frontend with dynamic task management and calendar visualization for planned study sessions

Personal Portfolio Website

- Hosts and version-controls the site through GitHub, implementing a responsive design for an optimized user experience
- Developed a portfolio website to showcase projects, work experience, and skills using HTML, CSS, SCSS, and JavaScript
- Registered a custom domain and configured DNS to redirect traffic from GitHub Pages to the URL

TECHNICAL SKILLS

Programming Languages: Terraform, Ansible, Python, PowerShell, Java, JavaScript, C++, C, SQL, R, CSS, HTML

Developer Tools: Terraform Cloud, Red Hat Ansible, Microsoft Azure, Microsoft Office, VS Code, Visual Studio, GitHub, Git, RStudio, WSL, Linux, ROS, MySQL, Power BI, React.js, Spring Boot, PostgreSQL