

# 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

- Develops 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
- 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
- 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%
- Collaborates with global IT teams to standardize cloud infrastructure automation practices and drive operational efficiency

### Lawrence Technological University

*Research Assistant*

**Southfield, MI**

Feb 2025 – Present

- Researching on 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
- 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

### Student Assistant

May 2025 – Jul 2025

- Assisted 12+ students in designing 3D models using CAD and facilitated 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

- Supported 40+ students in understanding concepts of Calculus I & II, including limits, derivatives, integrals, and sequences
- Lead 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 monthly 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

- Developed a mobile robot capable of autonomously tracking a blue line using computer vision and integrated a LiDAR sensor that publishes data and implements real-time obstacle detection and avoidance for dynamic environments
- Conducted extensive field testing to validate mapping accuracy, path tracking stability, and obstacle response

### 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

- Developed a portfolio website to showcase projects, work experience, and skills using HTML, CSS, SCSS, and JavaScript
- Hosts and version-controls the site through GitHub, implementing a responsive design for an optimized user experience
- 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