

# Jason Nguyen

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## EDUCATION

### Lawrence Technological University

*Bachelor of Science in Computer Science*

**Southfield, MI**

Expected Graduation: May 2026

- Cumulative GPA: 3.45/4.00
- Dean's List: 3 Semesters
- All-Academic Team: 3 Awards in Men's Volleyball & Esports

## EXPERIENCE

### BorgWarner

*IT Infrastructure Automation Intern*

**Auburn Hills, MI**

Jun 2025 – Present

- Develops infrastructure-as-code for Azure using Terraform and Ansible, streamlining provisioning and enabling scalable multi-region deployments
- Builds and maintains cloud automation and CI/CD pipelines using Terraform Cloud, Ansible, GitHub, and Azure, accelerating deployments and reducing costs by 15%
- Implemented automated cloud backup solutions with Terraform and Azure, improving data protection and reducing manual effort by 30% for SQL Servers and PostgreSQL
- Collaborates with global IT teams to standardize cloud automation practices and enhance operational efficiency
- Leads Wiki.js development and authors standardized policies and step-by-step CMDB documentation

### The Blue Times Student Newsletter

*President*

**Southfield, MI**

Nov 2023 – Present

- Compiles monthly reports for LTU while coordinating team meetings and deadlines to ensure consistent publication cycles
- Revamped the newsletter's content strategy and layout, increasing readership and engagement by 100%

### Lawrence Technological University

*Research Assistant*

**Southfield, MI**

Feb 2025 – Present

- Conducts experiments with the Unitree Go2 using ROS and LiDAR to study robotic perception, mapping, and obstacle avoidance under Professor Wisam Bukaita
- Researches personalized real-to-sim-to-real navigation using mobile-captured Gaussian Splats with Department Chair Eric Martinson, focusing on temporal dynamics of scanned environments

### Social Media Manager

Apr 2025 – Jan 2026

- Created engaging content to promote tournaments, highlights, and milestones for the #1 VALORANT Esports team in WHAC
- Provided live coverage of events across social media, boosting interaction and audience reach by 50%

### Team Manager

Sep 2024 – Oct 2025

- Organized 10+ practice drills for the #1 ranked WHAC team and #3 nationally ranked NAIA Men's Volleyball program
- Supported coaching staff by tracking performance statistics and metrics for 30+ athletes using Excel

### 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
- Guided 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

## PROJECTS

### ROS Mobile Robot

- Built an autonomous robot using C++ and Python with blue line tracking and LiDAR-powered obstacle detection and avoidance

### AI Study Planner

- Developed a web application in Java that generates personalized study schedules for students using AI-driven task prioritization

### Vending Machine Simulator

- Programmed inventory management of drinks and transaction logic to handle customer payments and calculate change in C++

### Simple Mail Transfer Protocol

- Developed a Python SMTP client capable of sending email messages using socket programming and Gmail's SMTP server

## TECHNICAL SKILLS

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

**Frameworks & Libraries:** React.js, Spring Boot

**Databases & Analytics:** Microsoft Power BI, PostgreSQL, MySQL

**Developer Tools:** Microsoft Azure, Terraform Cloud, Red Hat Ansible, Microsoft Office, VS Code, Visual Studio, GitHub, Git, WSL, Linux Ubuntu, ROS Noetic, Wiki.js, VMware