Jason Nguyen

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EDUCATION

Lawrence Technological University, *Southfield, MI*   Graduation: May 2026
Bachelor of Science, Computer Science
- Cumulative GPA: 3.4
- Dean's List: 2 Semesters
- All-Academic Team: 3 Awards in Esports and Men's Volleyball

WORK EXPERIENCE

BorgWarner Inc, *Auburn Hills, MI*   Jun 2025 – Present
IT Infrastructure Automation Intern
- Created and deployed Azure Backup and Recovery Services Vaults using Terraform, automating virtual machine backups for workloads including SAP Enterprise, SAP Voyager, SQL Server, and PostgreSQL, enhancing disaster recovery readiness and data resilience
- Develops infrastructure automation scripts using Terraform and Ansible to streamline provisioning and configuration processes
- Supports deployment and maintenance of automation workflows through Terraform, Ansible Automation Platform, GitHub, and Azure DevOps pipelines
- Writes and maintains infrastructure-as-code in HCL, YAML, and JSON formats to ensure scalable servers and consistent environments
- Collaborated with cross-functional teams around the globe, including APAC, EMEA, and NCSA, to identify automation opportunities, delivering process improvements and operational efficiency

Lawrence Technological University, *Southfield, MI*   Jan 2025 – Present
Teaching Assistant
- Navigates 30+ students in Calculus Lab with a step-by-step process to understand the concepts of Calculus 1 and 2 while answering their lecture questions
- Guides the use and navigation of RStudio and explains the R programming language on how it compiles and executes

The Blue Times Newsletter, *Southfield, MI*   Nov 2023 – Present
President, Editor in Chief
- Collaborated with Professor Paula Lauren and Professor Franco Delogu in an interview on their perspectives on using virtual reality and artificial intelligence for an immersive education experience through studying, efficiently learning concepts, and providing perceived hands-on learning
- Researches campus opportunities, jobs, research positions, and internships in a monthly report as the student newsletter at Lawrence Technological University
- Writes reports on academic highlights of Lawrence Tech students, student organizations, campus life updates, and tracks 30+ athletic team records
- Edits and finalizes the newsletter for publishing by sending it to Yellow Flag Productions for the design phase

Lawrence Technological University, *Southfield, MI*   May 2025 – Jul 2025
Student Assistant
- Guides 20+ participants in programming robotic dogs using Python to perform autonomous movements and respond to sensor input
- Supports instruction in Python programming fundamentals by mentoring high school students through coding challenges and robotic simulations
- Assist 20+ high school students in designing and modifying 3D models using CAD software and facilitate the operation of 3D prints to fabricate physical prototypes
- Provides hands-on guidance in troubleshooting print errors and optimizing print settings to achieve accurate and high-quality results

INVOLVEMENT

Lawrence Technological University, *Southfield, MI*   Feb 2025 – Present
Undergraduate Researcher
- Research on Robotics under Professor Wisam Bukaita and how LiDAR is used to simulate an environment to avoid obstacles and surrounding areas
- Experiments with Unitree Go2 in ROS and collect data in Excel to simulate the applications of robot dogs in dangerous environments and condition monitoring
- Research on Software Engineering under Professor Destiny Anyaiwe on the roles of the blind and visually impaired in the software engineering industry

Lawrence Tech Men's Volleyball, *Southfield, MI*   Sep 2024 – Present
Team Manager
- Organizes 10+ routines and drills throughout practice and warm-ups for the #1 Men's Volleyball team in WHAC and #3 in the nation at NAIA
- Assists the coaches with tracking and inputting statistical data and percentages of 20+ players in Excel
- Collaborates with 30+ players, coaches, and team managers to allow a positive and engaging environment

Lawrence Tech Esports, *Southfield, MI*   Oct 2023 – Present
Social Media Manager, Varsity Player
- Created engaging media content to promote events, tournaments, and highlights, increasing engagement for the #2 VALORANT Esports team in WHAC
- Managed live social media coverage of esports events and tournaments, boosting real-time engagement and visibility
- Collaborated with teammates, coaches, and the director to ensure consistent branding and timely communication of team news, rosters, and achievements

PROJECTS

Personal Portfolio Website   Feb 2025 – Present
- Created portfolio website through GitHub that includes projects, work experience, skillsets, involvement, and about me
- Programmed portfolio website using SCSS, CSS, JavaScript, and HTML
- Created a domain and linked the GitHub repository to redirect traffic to jasonbaoduy.com

ROS Mobile Robot with Line Tracking and Hector SLAM Mapping Using LiDAR   Aug 2024 – May 2025
- Conducted extensive field testing to validate mapping accuracy, path tracking stability, and obstacle response
- Developed a mobile robot capable of autonomously tracking a blue line using computer vision techniques and ROS control systems using Python, C++, and integrated launch files, transform masking, URDF model, TF tree, Hector SLAM map, laser scan, and odometer into RVIZ
- Integrated LiDAR sensor and publishing data to implement real-time obstacle detection and avoidance for dynamic environments, where once the mobile robot detects an object in front of it, it will spin 180 degrees and go the opposite way to avoid the obstacle in its path

AI-Assisted Dungeon Game for the Blind   Oct 2023 – Dec 2023
- Developed a 2D dungeon game that is designed for blind and visually impaired players through Java
- Implemented AI-assisted narration, sound stage, and haptic feedback to allow an immersive experience

TECHNICAL SKILLS

Programming Languages: Python, HCL (HashiCorp Configuration Language), JSON, YAML, Jinja2, PowerShell (Cmdlet / PS1), Java, JavaScript, C++, C#, C, SQL, R, SCAD, 68K Assembly, CSS, SCSS, HTML, HTML5

Developer Tools: Terraform, Ansible, Azure DevOps Server, Microsoft Office, Visual Studio Code, GitHub, Eclipse, RStudio, WSL Linux, Ubuntu, ROS Noetic, OpenSCAD, EASy68K, Dreamweaver, Bambu Studio, MySQL, BIOPAC Lab, Blender, JASP