

Lam (Tony) Vu

lamv@bgsu.edu | www.linkedin.com/in/lam-an-bao-vu | (419)-378-9241

Education

Bowling Green State University

Bowling Green, OH

Bachelor of Science in Computer Science - Computational Data Science Specialization

May 2026

- GPA: 3.9
- Relevant coursework: Data Structure & Algorithm, Operating Systems, Algorithm Design and Analysis, Introduction to Machine Learning, Computing with Data, Database Management Systems

Skills

Programming: C++, Python, Ruby, HTML, React, Node.js, Javascript

Data & Analytics: Power BI, Tableau, SQL, SQLite, MongoDB, Excel

Machine Learning & AI: OpenCV, TensorFlow, YOLO, PyTorch, Scikit-learn, N8N, Zapier

Productivity & Collaboration: Gitlab, GitHub, Google Workspace, Microsoft Office, Power Platform

Experience

Power BI Intern

April 2024 - Present

BGSU Campus Operations

Bowling Green, OH

- Develop and optimize complex Power BI reports and dashboards by writing advanced DAX measures and integrating SQL queries to streamline data analysis, enhancing decision-making efficiency by 40%.
- Enhance data security in Power BI by implementing application-level security measures and adhering to governance standards, reducing unauthorized data access by 40%.
- Automate data processing workflows using Power Query and SQL, improving efficiency and ensuring data accuracy.
- Collaborate with client and internal teams to refine project requirements and documentation, successfully assisting over 10 large-scale projects and improving client-satisfaction rate by 25%.

Financial Data Assistant

October 2023 – April 2024

BGSU Bursar's Office

Bowling Green, OH

- Automated collection report generation using Excel, reducing report-creation time by 50% and improving data visibility for collections team.
- Analyzed student accounts and optimized SQL queries to improve accuracy in billing and payment tracking, contributing to a 25% increase in reporting precision.
- Managed front-line customer service and administrative support, handling 50+ daily and 150+ peak-season calls regarding student billing inquiries, ensuring efficient issue resolution.

Software Engineer Intern

May 2023 – August 2023

KPMG

Hanoi, Vietnam

- Designed and developed data-driven applications using Python and SQL to support automation of risk reporting processes, improving efficiency and reducing manual workload by 30%.
- Implemented SQL queries and optimization techniques to reduce data retrieval times and improve system performance for real-time dashboard integrations.
- Participated in Agile development cycles, contributing to sprint planning, code reviews, and debugging sessions using Git version control and issue tracking systems.

PROJECT

Client Management System (Academic Project) | *Next.js, Node.js, REST API, SQLite, React, TypeScript*

- Designed and implemented SQLite Database schema and API endpoints to manage 100+ households, track donations, and monitor client visits in real-time.
- Built backend features for authentication, duplicate household detection, customer banning and automated monthly and yearly reporting to improve operational efficiency.
- Contributed to frontend development by building responsive Next.js components for signing up new customers and modifying returning clients
- Coordinated full-stack integration with teammates, ensuring seamless data flow and improving system reliability for community use.

Real-Time Road Sign Detection System | *Python, YOLO, OpenCV, TensorFlow, CUDA*

- Developed a real-time traffic sign detection model using YOLO, OpenCV, and TensorFlow, achieving 90%+ accuracy for autonomous driving applications.
- Implemented and fine-tuned YOLOv5 for real-time object detection, leveraging CUDA-accelerated deep learning on NVIDIA GPUs to achieve a 30% improvement in inference speed.
- Trained the deep learning model using Convolutional Neural Networks and transfer learning, processing a large-scale dataset of annotated traffic signs
- Evaluated model performance with precision-recall metrics, confusion matrices and MAP, achieving high robustness across various lighting conditions

Yahtzee Game Development | *C++, Gitlab, Agile Methodologies, Catch2, CMake, CI/CD, Object-Oriented Programming*

- Developed a command-line based implementation of the Yahtzee game in C++, applying software development methodologies such as requirements gathering, system design, and version control
- Managed version control using GitLab with a feature-branch workflow, integrating CMake and Catch2 for automated building and testing, ensuring consistent performance and high code quality

CERTIFICATION

Microsoft Office Specialist: Excel Associate (Office 2019)

December 2023