Kyle Park

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EDUCATION

The Ohio State University Columbus, OH
Bachelor of Science in Computer Science and Engineering, Minor in Mathematics Expected Graduation: December 2026
GPA: 3.733/4.0; Dean's List, National Buckeye Scholarship Recipient

WORK EXPERIENCE

The Ohio State University, Department of Computer Science & Engineering Columbus, OH
Machine Learning Research Assistant Oct 2025 - Present

- Conduct research under Professor Wei-Lun on machine learning and computer vision for healthcare applications, focusing on medical image analysis and predictive modeling, by developing and training deep learning models in PyTorch
- Collaborate with GitHub and HuggingFace for version control, while managing experiments on Linux-based GPU servers
- Contribute to research publications through literature review, experimental design, and visualization of results for submissions

Health Care Service Corporation Chicago, IL
Software Development Engineer Intern Jun 2025 - Aug 2025

- Led development of a Python automation platform to ingest and normalize healthcare cohort data, applying Pandas cleaning pipelines that eliminated manual spreadsheet work and saved 95+ hours and avoided $52K in revenue costs annually
- Designed and implemented MongoDB schemas to store standardized cohort data across multiple regions while optimizing data pipelines, ensuring query efficiency and long-term scalability of 500K+ records, enabling rapid ingestion of large datasets
- Built REST APIs with FastAPI, implementing authentication and MongoDB indexing to provide secure, low-latency cohort insights, reducing reporting delays from 1 week to same-day and enabling self-serve access across departments
- Containerized data pipelines and REST APIs using Docker, designing reproducible environments and deployment workflows

The Ohio State University, Department of Computer Science & Engineering Columbus, OH
Teaching Assistant, CSE 1223 Sep 2024 – Present

- Assist 40+ students enrolled in Introduction to Java during lab 2 times a week, ensuring understanding of basic algorithms, data structures, and programming, providing constructive criticism for over 100 homework, labs, and project assignments
- Increased average grades of all students by ~10% from last year, demonstrating effective and efficient teaching methodologies

LEADERSHIP & INVOLVEMENT

Buckeye Vertical Columbus, OH
Object Detection Engineer Oct 2024 – Present

- Developed and executed C# scripts in Unity to automate the generation of 20,000+ synthetic images for model training
- Accelerated YOLOv8 training by hours, leveraging AWS GPU instances by automating pipelines with Python scripts
- Engineered an image-processing system integrating YOLO, OCR, and OpenCV, reaching 95% real-world accuracy, by implementing localization algorithms to convert pixel detections into geospatial coordinates for drone mapping

OHI/O Columbus, OH
Sponsorship Lead Sep 2024 – Present

- Network with 100+ companies each semester, raising over $115,000 throughout the year for all OHI/O events and programs
- Direct financial planning, allocating funds across events, meetings, and club operations for members and 2600+ CSE students

PROJECTS

TravelPal Columbus, OH
Team Member March 2025

- Won 2nd place at Make OHI/O with 70+ teams competing in a 24 hour time frame, solving issues of mobility with AI
- Incorporated machine learning concepts to assign traversal costs within a graph by analyzing terrain features and user impairments, utilizing breath-first-search to compute personalized, accessibility-optimized routes in Ohio State's campus
- Used C++ integrated with Arduino, displaying directions through LCD and LED to support usage for deaf and blind users

TECHNICAL SKILLS & INTERESTS

Languages: Python, Java, JavaScript, MATLAB, C, SQL, x86-64 Assembly, Visual Basic for Application
Libraries/Tools: PyTorch, React, NumPy, Matplotlib, Scikit-learn, PostgreSQL, Git, VSCode, Eclipse, Jupyter, Unity, UiPath
Interests: Triathlons, Art of Sound, Game Theory, Saxophone, Piano, Golf, Basketball, Weightlifting