

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

Relevant Coursework: Data Structures & Algorithms, Intro to AI, Operating Systems, Computer Networking, Database Systems

WORK EXPERIENCE

Imageomics Institute

Columbus, OH

Machine Learning Research Assistant

September 2025 - Present

- Applying SAM2 and GroundingDino models with PyTorch to label and segment videos of multiple sports to train algorithms for identity recognition from actions, aiming to transfer these methods to ecological applications
- Automated video retrieval by developing a Python script using the NBA API to instantly deliver player and shot-specific clips, streamlining film analysis for the team by reducing manual film retrieval time by ~5 hours per week

Health Care Service Corporation

Chicago, IL

Software Engineer Intern

June 2025 - August 2025

- Optimized ingestion, cleaning, and normalization of cohort data with Python and Pandas, saving 90 hours and \$52K annually
- Designed scalable MongoDB schemas and REST APIs using FastAPI to optimize query performance, reducing reporting delays from 1 week to same-day and enabling cross-department self-serve access to 3K+ records
- Containerized data pipelines and REST APIs using Docker, creating reproducible environments and deployment workflows

The Ohio State University

Columbus, OH

Teaching Assistant, CSE 1223

September 2024 – Present

- Assist 40+ students each semester in Introduction to Java during lab sessions 2 times a week, providing guidance with programming fundamentals, basic algorithms, and data structures, through one on one support and troubleshooting
- Hold weekly office hours providing constructive criticism for over 50 homeworks, labs, and project assignments
- Improved student grade performance by an average of ~3% each semester, reflecting effective teaching methodologies

LEADERSHIP & INVOLVEMENT

OHI/O

Columbus, OH

Sponsorship Lead

September 2024 – Present

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

PROJECTS

MoodboardApp

Columbus, OH

- Developed a mobile app with React Native and TypeScript, enabling users to create and share music-paired moodboards
- Architected and deployed a scalable backend using Node.js, Express, and PostgreSQL (Prisma ORM), with JWT authentication for security and Socket.io to support real time collaboration and updates
- Integrated Spotify, SoundCloud, and Cloudinary APIs for music playback and media storage/optimization
- Configured CI/CD pipelines with GitHub Actions, Vercel, and Railway to automatically build, test, and deploy frontend and backend services on every push, reducing deployment errors

TravelPal

Columbus, OH

- Won 2nd place at Hack OHI/O with 70+ teams competing in a 24 hour time frame
- Designed a graph-based routing system that applied machine learning to assign traversal costs from terrain and user impairments, then computed accessibility optimized routes with breadth-first search across Ohio State's campus
- Built hardware with C++ and Arduino, displaying directions on LCD and LED modules to support deaf and blind users

TECHNICAL SKILLS & INTERESTS

Languages: Python, Java, JavaScript/Typescript, MATLAB, C#, HTML/CSS

Libraries/Tools: PyTorch, Numpy, React, PostgreSQL, Express.js, Pandas, Scikit-learn, Git, VSCode, Jupyter

Interests: Triathlons, Art of Sound, Saxophone, Golf, Basketball, Weightlifting