

Kyle Park

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EDUCATION

The Ohio State University

Bachelor of Science in Computer Science Engineering, Minor in Mathematics

Awards/Involvement: Dean's List, National Buckeye Scholarship, ECE 2060 Grader, ENGR 1181/1182 TA, Personal Trainer

TECHNICAL SKILLS & INTERESTS

Languages: Python, Java, JavaScript, C#, Ruby, HTML, CSS, React Native

Libraries/Tools: PyTorch, PostgreSQL, FastAPI, Express.js, Pandas, Linux, Docker, Git, JUnit, Rails, MATLAB, SAM2

Relevant Coursework: Artificial Intelligence, Machine Learning, Data Structures & Algorithms, Low Level Programming, Database Systems, Operating Systems, Computer Networking, Software Development, Web Applications, Linear Algebra

WORK EXPERIENCE

Imageomics Institute

Machine Learning Research Assistant

Columbus, OH

September 2025 - Present

- Applying SAM2 and GroundingDino models with PyTorch to **label and segment 1000+ videos** of multiple sports to train algorithms for identity recognition from actions, aiming to transfer these methods to ecological applications
- **Reduced manual film retrieval time by 10 hours a week** by developing a Python script using the NBA API to instantly deliver player and shot-specific clips, helping streamline film analysis for the research team

Health Care Service Corporation

Software Engineer Intern

Chicago, IL

June 2025 - August 2025

- **Saved 90 hours and \$52K annually** by optimizing ingestion, cleaning, normalization of cohort data with Python and Pandas
- 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-region self-serve access to 3K+ records**
- Containerized data pipelines and REST APIs using Docker, creating reproducible environments and deployment workflows

The Ohio State University

Teaching Assistant, CSE 1223

Columbus, OH

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 grades by an average of ~3% each semester**, reflecting effective teaching methodologies

LEADERSHIP

OHI/O

Sponsorship Lead

Columbus, OH

September 2024 – Present

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

PROJECTS

MoodboardApp

Columbus, OH

- Developed a mobile app with React Native and TypeScript, **enabling 90+ users** to create and share music moodboards
- Built and deployed a backend with Node.js, Express, and PostgreSQL, implementing secure user authentication and enabling real-time updates for collaboration features
- Implemented automated CI/CD pipelines with Vercel and Railway that tested and deployed frontend and backend on every push, **reducing deployment time by 90%** and ensuring zero failed builds post-integration
- Integrated Spotify, SoundCloud, and Cloudinary APIs for music playback and media storage/optimization

TravelPal

March 2025

- **Won 2nd place at Make OHI/O** with **250+ participants** competing in a 24 hour time frame
- Designed a routing algorithm that **improved travel efficiency by ~35%** for users with mobility or sensory impairments
- Trained an ML model to dynamically weight terrain and distance data from **100+ mapped campus locations** for navigation
- Built hardware with C++ and Arduino, displaying directions on LCD and LED modules to support deaf and blind users