

Kyle Park

847-502-6026 | kylepark126@gmail.com | linkedin.com/in/kylepark126 | kylepark26.github.io

EDUCATION

The Ohio State University	Columbus, OH
<i>Bachelor of Science in Computer Science Engineering, Minor in Mathematics; GPA: 3.73</i>	<i>Aug 2023 – Dec 2026</i>
• Awards/Involvement: Dean's List, National Buckeye Scholarship, ECE 2060 Grader, ENGR 1181/1182 TA, Personal Trainer	

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, C#, Ruby, HTML/CSS, React Native
Tools & Libraries: PyTorch, FastAPI, SQLAlchemy, PostgreSQL, Pandas, Docker, Linux, Git, MATLAB, Rails, SAM2
Coursework: Artificial Intelligence, Machine Learning, Data Structures & Algorithms, Low Level Programming, Database Systems, Operating Systems, Computer Networking, Software Development, Web Applications, Linear Algebra

EXPERIENCE

Imageomics Institute	Sep 2025 – Present
<i>Machine Learning Research Assistant</i>	<i>Columbus, OH</i>
• 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	Jun 2025 – Aug 2025
<i>Software Engineer Intern</i>	<i>Chicago, IL</i>
• 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	
Teaching Assistant, CSE 1223	Sep 2024 – Present
<i>The Ohio State University</i>	<i>Columbus, OH</i>
• 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

Sponsorship Lead	Sep 2024 – Present
<i>OHI/O</i>	<i>Columbus, OH</i>
• 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 <i>Python, React Native, FastAPI, PostgreSQL, Pydantic</i>	Aug 2025 - Oct 2025
• Developed a mobile app with React Native and TypeScript, enabling 90+ users to create and share music moodboards	
• Designed and deployed a Python FastAPI backend with Pydantic data models and PostgreSQL, implementing JWT-based authentication, rate-limited endpoints, and optimized query patterns for scalable user interactions	
• 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 <i>Python, Arduino, C++</i>	Mar 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 model using terrain and distance data from 100+ campus locations to dynamically adjust travel routes	
• Built hardware with C++ and Arduino, displaying directions on LCD and LED modules to support deaf and blind users	