

Kyle Park

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EDUCATION

The Ohio State University	Columbus, OH
<i>Bachelor of Science in Computer Science Engineering, Minor in Mathematics</i>	<i>Aug 2023 – Dec 2026</i>
<ul style="list-style-type: none">• Awards & Activities: Dean's List, National Buckeye Scholarship, Make OHI/O 2025 1st Place Winner, Introduction to Digital Logic 2060 Grader, Fundamentals of Engineering I & II Teaching Assistant (2024 - 2025), Personal Trainer	

TECHNICAL SKILLS

Languages: Python, Java, C#, SQL, React, JavaScript, HTML/CSS
Tools & Libraries: FastAPI, SQLAlchemy, PostgreSQL, Node.js, Express.js, PyTorch, NumPy, scikit-learn, Pandas, Alembic, AWS, MongoDB, PyTest, Docker, Linux, Git, Snowflake, Jira, SAM2, GroundingDINO
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>Computer Vision Research Assistant</i>	<i>Columbus, OH</i>
<ul style="list-style-type: none">• Co-developed BALLER120, a curated dataset of 4,500+ free-throw sequences from 120 NBA players, resulting in 9000+ appearance and silhouette clips for controlled identity recognition research• Built a full segmentation pipeline using GroundingDINO + SAM2, achieving frame-accurate masks across 100% of clips• 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>
<ul style="list-style-type: none">• 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	Sep 2024 – Present
<i>Introduction to Java Teaching Assistant</i>	<i>Columbus, OH</i>
<ul style="list-style-type: none">• 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	

PROJECTS

Spotted Lanternfly Predictor <i>Python, Pandas, NumPy, Plotly</i>	Sep 2025 – Nov 2025
<ul style="list-style-type: none">• Developed a spatial-temporal prediction model forecasting Spotted Lanternfly spread across 17 Ohio counties, generating county-level infestation timelines through 2027 using proximity, forest composition, and urban density metrics• Engineered a composite ecological risk scoring system for 22 host tree species by weighting abundance rankings against species-specific sensitivity data, identifying Maple as the highest-risk species (70.0/100 score)• Estimated a \$38.7M annual economic impact to the Columbus region via geospatial modeling and scaled economic-loss calculations derived from Pennsylvania historical data (2014–2020)	

LEADERSHIP & INVOLVEMENT

Object Detection Engineer	Sep 2025 – Present
<i>Buckeye Vertical</i>	<i>Columbus, OH</i>
<ul style="list-style-type: none">• Developed and executed C# scripts in Unity to automate the generation of 20,000+ synthetic images for model training• Trained image processing architecture consisting of YOLO, OCR, & OpenCV, achieving 95% accuracy on real data• Utilized AWS cloud computing resources to efficiently train a YOLOv8 object detection model on generated datasets	
Sponsorship Lead	Sep 2024 – Sep 2025
<i>OHIO</i>	<i>Columbus, OH</i>
<ul style="list-style-type: none">• 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	