# 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

**Imageomics Institute**                                              Columbus, OH
Machine Learning Research Assistant                                              Nov 2025 - Present
- 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

**Health Care Service Corporation**                                              Chicago, IL
Software Development Engineer Intern                                              Jun 2025 - Aug 2025
- Automated ingestion and normalization of cohort data with Python, accelerating delivery using Agile methodology
- Utilized Pandas cleaning pipelines to eliminate manual work, saving an estimated 90+ hours and $52K annually
- Designed and implemented MongoDB schemas to store cohort data while optimizing data pipelines, ensuring query efficiency and long-term scalability of 3K+ records across multiple Blue Cross Blue Shield regions
- Built REST APIs with FastAPI and MongoDB indexing to deliver secure, low latency cohort information, cutting reporting delays from 1 week to same-day and providing self-serve data access across departments
- Containerized data pipelines and REST APIs using Docker, creating 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 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                                              Sep 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

**CadenceApp**                                              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 full-stack 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, streamlining releases and reducing deployment errors

**TravelPal**                                              Columbus, OH
- Won 2nd place at Make 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:** Git, PyTorch, React, PostgreSQL, Express.js, Pandas, Numpy, Scikit-learn, VSCode, Jupyter
**Interests:** Triathlons, Art of Sound, Saxophone, Golf, Basketball, Weightlifting