John Parks

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https://www.linkedin.com/in/john-parks-313428236/

EDUCATION

University of Cincinnati, College of Engineering and Applied Science, University Honors Program Cincinnati, Ohio
CEAS Bachelor of Science, Major: Computer Science, CEAS Dean's List
Expected Graduation: April 2026
GPA: 3.747

WORK EXPERIENCE

Pole/Zero, West Chester Township, OH May 2024 – August 2024
Software Engineer Co-op

- Created comprehensive test plans for software applications to ensure they met established standards and requirements
- Designed and implemented software to automate the migration of thousands of data files to protect data integrity
- Saved the company $180,000 by modifying software to work with different versions of existing equipment
- Upgraded multiple software packages to the latest version of a shared codebase, improving performance and security

London Computer Systems, Cincinnati, OH August 2023 - December 2023, January 2023 - April 2023
Software Developer Co-op

- Developed technical solutions for front-end and back-end web development, improving the user experience
- Wrote SQL scripts to update databases while maintaining data integrity and ensuring reliable data management
- Brainstormed new processes for project breakdown to streamline development of new features
- Collaborated with co-workers on projects to ensure project requirements and deadlines were met
- Presented new features in a concise and informative manner to product managers and stakeholders

BARK Handmade, Cincinnati, OH May 2020 - March 2023
Co-founder

- Co-founded a woodworking startup that manufactured and produced high-quality wood products
- Analyzed social media trends to market products and increase traffic to the business' Etsy shop
- Managed finances to accurately keep track of expenses and set up banking for payment plans and associates
- Oversaw material sourcing and planning for furniture projects

RESEARCH

VISENS Research Group - University of the Basque Country, Bilbao, Spain Jan 2025 – May 2025
Artificial Intelligence Researcher

- Conducted independent research on AI-based detection of spasticity using BlazePose and Computer Vision techniques
- Developed a Python algorithm to detect and correct pose estimation errors, improving joint tracking reliability
- Investigated anomaly detection methods to identify inconsistent key points in human pose estimation
- Delivered a technical presentation to the entire research team to summarize my findings

UCdasec Lab - University of Cincinnati, Cincinnati, OH May 2025 – Present
Hardware Security Researcher

- Researching detection methods for hardware vulnerabilities from the Common Weakness Enumeration (CWE) list
- Reviewing recent publications and exploring static analysis approaches to identifying vulnerabilities in hardware designs

SKILLS

- JavaScript/Typescript
- C++
- Python
- GraphQL/REST API
- Human Pose Detection
- HTML/CSS
- C#/VB.NET
- Angular
- Git
- Computer Vision