

Owen Akers

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EDUCATION

Johns Hopkins University

Expected May 2028

B.S. Candidate in Computer Science and Computer Engineering

GPA: 3.81/4.0

- **Relevant Coursework:** Data Structures, Intermediate Programming (C & C++), Gateway Computing: Java, Bootcamp: Python, Mathematical Foundations for Computer Science, Linear Algebra, Calculus III, Physics I, Chemistry I
- **Athletics:** Varsity Men's Tennis

SKILLS

Languages: Python, C++, JavaScript, TypeScript, SQL, Java, C

Frameworks: React, React Native, FastAPI, Tailwind CSS, Django, Flask, PyTorch

Tools: Git, Docker, PostgreSQL, Bitbucket, Confluence, Jira, DBeaver, Cypress

EXPERIENCE

Social Cognitive AI Lab, Johns Hopkins University

Baltimore, MD

Undergraduate Research Assistant

August 2025 - Present

- Develop a web-based interface using Flask and React to provide remote simulation, visualization, and interactive control for the HomeRobotSim robotics platform
- Integrate the UI with complex backend systems, including PyTorch-based learning pipelines and the Habitat simulation environment
- Accelerate the research cycle for embodied AI by enabling researchers to remotely conduct and visualize experiments in real-time

Lowe's Companies, Inc.

Charlotte, NC

Software Engineer Intern

May 2025 - August 2025

- Built and deployed an internal React/TypeScript web app visited by 300,000+ store associates, showcasing the Lowe's Tech Hub building in Charlotte, NC
- Enhanced user search efficiency by designing and implementing a dynamic filtering UI for over 50 elements within a dataset, featuring advanced sorting and search capabilities
- Wrote 20+ optimized SQL queries and integrated with RESTful endpoints to manage and serve PostgreSQL data
- Improved application security by identifying, triaging, and remediating code vulnerabilities reported by the Snyk static analysis tool
- Ensured platform stability and maintainability by utilizing CI/CD pipelines with Docker; achieved 100% test coverage with Cypress

Swish

Baltimore, MD

Software Engineer

August 2024 - May 2025

- Led development of a mobile app for a student-founded startup, connecting shoppers with retailers via QR code-powered wishlists
- Implemented backend services for a Retailer Analytics Dashboard to track product popularity, wishlist activity, and consumer trends
- Contributed to user acquisition efforts, securing a pre-launch waitlist of over 1,000 users

PROJECTS

Market Mentor

<https://github.com/owenakers/Market-Mentor>

- Built a full-stack financial dashboard with a Python/Flask API, React/TypeScript frontend, and secure user authentication
- Leveraged Supabase for PostgreSQL database hosting, using SQLAlchemy in the Flask API to manage relational data for user watchlists and integrating third-party APIs (yfinance) to visualize stock data

LEADERSHIP

Cyberbirds

Baltimore, MD

Secretary & Lead Web Developer

Jan 2025 - Present

- Developed and maintain the club website accessed by 75+ members, providing updated resources and announcements
- Host technical discussions and workshops on topics such as network security, cryptography, and ethical hacking
- Spearheaded bimonthly Capture The Flag (CTF) team competitions, analyzing and solving challenges in web exploitation