# Owen Akers

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#### **EDUCATION**

## Johns Hopkins University

Expected May 2028

B.S. Candidate in Computer Science and Applied Mathematics

GPA: 3.81/4.0

- **Relevant Coursework:** Data Structures and Algorithms, Full-Stack JavaScript, Intermediate Programming (C & C++), Honors Discrete Mathematics, Linear Algebra, Ethics of AI and Automation
- Varsity Men's Tennis

### **SKILLS**

**Languages**: Python, C++, JavaScript, TypeScript, SQL, Java, C **Frameworks**: React, React Native, FastAPI, Tailwind CSS, Django

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

#### **EMPLOYMENT**

### Lowe's Companies, Inc.

Charlotte, NC

Software Engineer Intern

May 2025 - Present

- Engineered and launched an internal, high-traffic React and TypeScript web application used by 300,000+ store associates to showcase Lowe's Technology Hub.
- Wrote efficient SQL queries and utilized FastAPI endpoints to manage data in a PostgreSQL database, supporting backend functionality.
- Improved application security by identifying, triaging, and remediating code vulnerabilities reported by the Snyk static analysis tool.
- Enhanced user search efficiency by designing and implementing a dynamic filtering UI in React for over 50 datasets, featuring advanced sorting and search capabilities.
- Ensured platform stability and maintainability by utilizing CI/CD pipelines with Docker and achieving 95% test coverage with Cypress.

Swish (Startup)

Baltimore, MD

Software Engineer

Aug 2024 - Present

- Drove development of the core MVP, building the application from concept and acquiring a pre-launch waitlist of over 1000 users.
- Spearheaded the integration of QR code scanning features to enhance the core in-store product discovery experience.

### **PROJECTS**

## **Chess Engine**

https://github.com/jhu-ip/2025-spring-final-anath3-oakers1-alee297

- Built a fully functional terminal-based chess game in C++, implementing standard rules and game logic for two-player gameplay.
- Applied object-oriented programming principles to model pieces, validate moves, and manage board state without reliance on external libraries.

## **Image Processing CLI Tool**

https://github.com/jhu-ip/2025-spring-midterm-anath3-oakers1.git

- Created a C-based command-line tool for image manipulation (blur, crop, invert) on binary PPM files using structs and dynamic memory allocation.
- Practiced systems-level programming by managing binary file I/O, debugging with GDB, and structuring the project with Make and Git.

# LEADERSHIP

**Cyberbirds** Baltimore, MD

Secretary & Lead Web Developer

Jan 2025 - Present

- Develop 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 monthly Capture The Flag (CTF) team practices, analyzing and solving challenges in web exploitation.