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, Intermediate Programming (C & C++), Gateway Computing: Java, Bootcamp: Python, Discrete Mathematics, Linear Algebra, Calculus III, Physics I
- **Athletics:** Varsity Men's Tennis, ACEing Autism

SKILLS

Languages: Python, C++, JavaScript, TypeScript, SQL, Java, C
Frameworks: React, React Native, FastAPI, Spring Boot, Tailwind CSS, Django
Tools: Git, Docker, PostgreSQL, Bitbucket, Confluence, Jira, DBeaver, Cypress

EXPERIENCE

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 (Startup)   Baltimore, MD
Software Engineer   August 2024 - Present
- Drove development of the core MVP, building the application from concept and acquiring a pre-launch wait list of over 1000 users
- Spearheaded the integration of QR code scanning features to enhance the core in-store product discovery experience

PROJECTS

Market Mentor
https://github.com/owenakers/ESG-Analyzer
- Developed and deployed a full-stack financial dashboard with a Python/Flask REST API, a multi-page React/TypeScript/Tailwind CSS frontend, and a secure user authentication system using Bcrypt
- Designed a PostgreSQL database with SQLAlchemy to manage relational data for user watchlists; integrated third-party APIs (yfinance) to fetch and visualize historical stock data with Chart.js

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 bimonthly Capture The Flag (CTF) team competitions, analyzing and solving challenges in web exploitation