OWEN RICHARD AKERS

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EDUCATION

Johns Hopkins University   Baltimore, Maryland
Candidate for B.S in Computer Science and Applied Mathematics   May 2028
- Cumulative GPA: 3.81/4.0
- Student Athlete: Varsity Men's Tennis

Carmel Christian School   Charlotte, North Carolina
High School Diploma   August 2024
Cumulative GPA: 4.0/4.0
SAT: 1510
Awarded AP Scholar with Distinction

RELATED EXPERIENCE

Software Engineering Intern   Charlotte, North Carolina
Lowe's Companies, Inc.   May 2025 - Present
- Leverage Agile methodology to build a comprehensive React and TypeScript application for an internal website viewed by 300,000+ store associates, highlighting the Lowe's Technology Hub in Charlotte, NC
- Write and run SQL queries in DBeaver to update records in a PostgreSQL database, supporting a FastAPI backend serving dynamic content to the frontend
- Implemented a React-based filtering UI for over 50 restaurants, allowing users to narrow results by cost, distance, and category; improved page interactivity and user experience
- Leveraged CI/CD pipelines, Docker, and Cypress testing to ensure a robust platform with 95% test coverage

Lead Software Engineer   Baltimore, Maryland
Swish   August 2024 - Present
- Contributed to Swish's mobile platform using React Native, Firebase, and Django, with 100+ users pre-registered for initial launch
- Integrated QR code scanning and wishlist-sharing features to enhance in-store product discovery
- Working on an analytics dashboard for retailers to monitor wishlist trends and track product engagement

Secretary & Lead Web Developer   Baltimore, Maryland
Cyberbirds   January 2025 - Present
- Designed, developed, and maintain club website used by 75+ members, ensuring accessibility and up-to-date content
- Facilitate meetings by coordinating discussions on topics including networks, cryptology, and ethical hacking
- Contribute to deployment of Capture The Flag (CTF) challenges, assisting in creation, design, and walkthrough to enhance members' hands-on cybersecurity skills.

Mechanical Team Lead   Charlotte, North Carolina
NASA - International Space Station (ISS) - Quest for Space   August 2021 - May 2022
- Led a team of 3 in designing and constructing a microlab deployed to the International Space Station with NASA
- Analyzed post-mission data on bubble behavior and survival in microgravity environments
- Discovered bubbles exhibited increased lifespan in microgravity compared to Earthly conditions

SKILLS

Backend: Python, SQL, Java, C, C++
Frontend: HTML, CSS, Javascript
Frameworks: React, React Native, Tailwind CSS
Tools: Git, GitHub, BitBucket, Postman, Confluence, Jira, Docker, Microsoft 365

ADDITIONAL INFORMATION

- logged over 200 community service hours
- enjoy playing piano, listening to music, and running