Kavanaugh Frank

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EDUCATION

Ohio University, Russ College of Engineering and Technology | Athens, Ohio   Expected Graduation: May 2026
Bachelor of Science in Computer Science   GPA: 3.9
Certificate in Business Cybersecurity Management

RELEVANT EXPERIENCE

Ohio Space Grant Consortium (OSGC) STEM Research Scholarship   June 2024 – Present
- Propose and develop a research project to acquire Digital Elevation Models (DEMs) from the United States Geological Survey (USGS) and integrate them with the Ohio University Glideslope Model (OUGS).
- Engineered a Docker-based microservice architecture to automate the collection of the DEMs using a python web-scraper and a Flask-based API that formats and serves elevation data based on inputted geographic coordinates.
- Implement a Java Swing menu to facilitate API data requests for the OUGS system, enabling the automatic input of elevation data into the system for enhanced accuracy in flight path calculations.

Ohio University Athens, Avionics Engineering Center | Athens, Ohio   January 2023 – Present
Research Assistant
- Developed a comprehensive user manual for the Ohio University Glideslope Model (OUGS) program with a team of undergraduate students and multiple professors using the LaTeX document preparation system.
- Conduct regression testing on the Java version of OUGS, comparing its functionality and performance against the VB6 version of OUGS.

Ohio Department of Transportation District 6, Testing Lab | Delaware, Ohio   May 2024 – August 2024
Engineering/IT Intern
- Assisted in the daily use and onboarding of new engineers to AASHTOWare Project, a construction management software introduced statewide at the beginning of the year.
- Constructed SQL queries for the ODOT material and project databases and integrated them into Excel for dynamic data loading enabling engineers to efficiently finalize construction projects.

LEADERSHIP AND INVOLVEMENT

Robe Leadership Institute Seminar | Athens, Ohio   August 2024 – Present
RLI Scholar
- Participate in the Robe Leadership Institute, developing leadership skills by studying leadership principles, collaborating on projects, reflecting on experiences, and networking with leaders and peers.

Ohio University Athens, Russ College of Engineering and Technology | Athens, Ohio   April 2023 – Present
Engineering Ambassador/Activity Coordinator
- Chair the Prospective Student committee, overseeing recruitment projects and interactions, while managing tour requests and matching prospective students with ambassadors based on their major interests.
- Promote the Russ College of Engineering and Technology to prospective students, parents, corporations, and foundations through tours, showcasing the college's diverse opportunities.

Ambassador of the Month Website
- Created a custom web application to track ambassador work hours and event attendance from an Excel sheet, automating the calculation of the ambassador of the month award and semester bonuses.
- Containerized the application using Docker and deployed it to Google Cloud Run, ensuring access to all ambassadors.

TECHNICAL SKILLS

C++ Python-Java-HTML/CSS-JavaScript-React-NodeJS-SQL/GQL-Flask-LaTeX-Unit Testing–APIs-Pandas-MySQL