

Swanand Kanere

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OBJECTIVE

Enthusiastic undergraduate computer science student seeking to apply knowledge and experience in a full-time position from May 2024 focused on algorithm design and financial analysis.

EDUCATION

University of Michigan

September 2021 – May 2024

Early Graduation with a BSE in Computer Science Engineering

Ann Arbor, MI

- Past Coursework: Data Structures & Algorithms, Foundations of Computer Science, Computer Organization, Computer Security, Quantum Information Science and Engineering, Machine Learning, Human-Centered Software
- Current Coursework: Artificial Intelligence, Web Systems

LEADERSHIP AND EXPERIENCE

Software Engineering Intern

May 2023 – Current

Raytheon - Applied Signal Technology

West Valley City, UT (Remote)

- Developed cross-platform 2D/3D hardware system modeling software using C++/Qt framework
- Wrote, reviewed, and tested code for 4 critical bugs and features
- Utilized Git, Jira, and Jenkins for agile and CI/CM development
- Collaborated in agile based development with full team sprints and engaging in daily scrums

Cybersecurity Intern

May 2022 – August 2022

Otis Worldwide Corporation

Farmington, CT (Remote)

- Designed and implemented automation tool for new user onboarding for internal VMware vSphere instance using a dynamic Flask webapp
- Utilized Python libraries to remotely manipulate Active Directory objects and manage core VSphere functions
- Categorized and drafted data visualization of penetration testing performed on vulnerable applications
- Developed ability to write clean, maintainable, and scalable code and create technical documentation for self-directed projects

Co-founder of Wolverines U Inc.

January 2021 – Present

Pending 501(c)(3) organization in NY

Queens, NY

- Co-founded a non-profit organization providing SHSAT tutoring to underprivileged students in 3 public middle schools
- Lobbied for and granted \$6,000 in discretionary funding, with promise and plan for greater amounts in years after incorporation maturity
- Conducted tutoring sessions to 30 students to convey key information about the test to create a better understanding of concepts in math and ELA

PROJECTS

UTutors

Web Application using TypeScript; used by students to teach their peers and to be taught by their peers

- Built backend application to call specialized data models via RESTful API built with TypeScript on Firebase
- Designed pipeline for automatic transcript recognition using AWS OCR and Google Cloud Functions
- Launched live demo version with hundreds of users for beta testing

PROGRAMMING SKILLS

Languages: C/C++, Python, Java, Typescript/Javascript, SQL, php, Matlab, L^AT_EX

Developer Knowledge: ROS (Robot Operating System), Git, Bash (UNIX shell)

Libraries: Git, OpenCV, pandas, NumPy, Selenium, Flask, SQLAlchemy, requests, Matplotlib