

Swanand Kanere

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OBJECTIVE

Software engineer with a bachelor's degree in computer science and a strong foundation in software engineering seeking to leverage analytical and programming skills while pursuing an master's degree in data science.

EDUCATION

University of Michigan

September 2021 – May 2024

Early Graduation with a BSE in Computer Science Engineering

Ann Arbor, MI

- **Coursework:** Data Structures & Algorithms, Foundations of Computer Science, Computer Organization, Computer Security, Quantum Information Science and Engineering, Machine Learning, Human-Centered Software, Database Management, Web Systems

LEADERSHIP AND EXPERIENCE

Software Engineer I

May 2023 – Current

RTX Collins Aerospace - Applied Signal Technology

West Valley City, UT (Remote)

- Developed cross-platform 2D/3D hardware system modeling software with C++/Qt framework
- Wrote, code reviewed, and tested for major 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
- Joined as an Intern/Co-op starting in May 2023 and converted to a full-time employee June 2024

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 through 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 and be taught by 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