

Aly Kane

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EDUCATION

SUNY Polytechnic Institute - Bachelor of Science in Cybersecurity

Interest in Computer Science | Expected Graduation: 2028

Relevant Coursework: Cybersecurity Foundations, Linux/Unix Systems, Computer Science Principles, Data Structures & Algorithms, Discrete/Finite Mathematics

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, HTML, CSS, SQL, Bash

Frameworks & Tools: React, Next.js, Flask, Node.js, Git, GitHub, Linux, SQLite

Cloud & Security: AWS EC2, AWS S3, SSH, environment variables, authentication, logging, access control, threat scoring

Testing & Documentation: Manual testing, automated test execution, bug reporting, defect tracking, test plans, technical documentation

Security Operations: Campus safety, overnight patrols, observation and reporting, incident documentation, access control, surveillance monitoring, team communication

PROJECTS

SecureBoard - Secure Anonymous Logging & Moderation Platform

Python, Flask, SQLite, AWS EC2, HTML/CSS, Linux

- Built and deployed a Flask-based anonymous message board with admin authentication, secure logging, and moderation tools.
- Implemented environment-variable-based admin credentials to avoid hardcoding sensitive login information in source code.
- Added automatic logging for user activity, including timestamps, anonymous identifiers, request data, and submitted messages.
- Developed moderation tools and a basic threat scoring system to help identify potentially risky or abusive submissions.
- Deployed and tested the application on AWS EC2 using Linux terminal workflows and portfolio-ready documentation.

Greatness Awaiting - Clothing Brand Website

Next.js, React, TypeScript, HTML/CSS, JavaScript

- Built a responsive clothing brand website for a streetwear-style project using Next.js and React.
- Created a dedicated shop page displaying product images, prices, and item listings with an expandable storefront structure.
- Implemented interactive product view behavior and organized product data/image ordering for easier future inventory updates.
- Tested the site locally using the Next.js development server and fixed image loading issues during development.
- Serve as a Brand Ambassador for Greatness Awaiting by supporting promotion, outreach, and brand visibility.

RELATED WORK EXPERIENCE

QA Tester - Project-Based / Contract Work

Remote

- Executed detailed manual and automated test cases across web, mobile, and desktop applications to verify functionality, performance, and security.
- Identified, reproduced, and documented software defects using bug-tracking workflows, giving developers exact steps to troubleshoot and resolve issues.
- Partnered with engineers, product managers, and designers in Agile-style environments to ensure products met user and business requirements.
- Created and maintained test plans, test scripts, and documentation outlining testing processes, expected behavior, and software health.

Security Guard - Allied Universal

Columbia University | May 2023 - July 2024

- Observed, recorded, and reported hourly overnight activity across a college campus environment as part of a coordinated security team.
- Conducted routine patrols, monitored assigned areas, and documented incidents, irregularities, and safety concerns with clear written reports.
- Worked alongside other guards to support campus safety, access control, and communication during overnight shifts.

STEM Mentor / Tutor - Rebuilding the Village Utica

Unpaid Community Service

- Taught STEM concepts to youth through community-service programming focused on leadership, guidance, and academic support.
- Created PowerPoint lessons and hands-on activities covering circuits, coding basics, engineering practices, infrastructure, business ideas, and entrepreneurship.
- Strengthened communication and leadership skills by breaking technical topics into clear, age-appropriate explanations.

ADDITIONAL

- Interested in cybersecurity, software engineering, cloud infrastructure, and government technology.
- Actively building portfolio projects focused on secure web applications, AWS deployment, full-stack development, and security-focused documentation.