

Keya Shah

US Citizen | kshah12@pride.hofstra.edu | (917) 818-8230 | Bethpage, NY 11714 |
<https://www.linkedin.com/in/shahkeya/> | <https://github.com/keyashah06>

SUMMARY

Computer Science student with experience in software development, system reliability, and machine learning. Skilled in troubleshooting, automation, and database optimization, with expertise in log analysis, risk assessment, and model optimization. Proficient in Java, Python, and SQL, with hands-on experience in REST APIs, DevOps, and deep learning frameworks like TensorFlow and JAX. Passionate about applying AI to solve complex problems and improve system performance.

EDUCATION

Hofstra University – Hempstead, NY

GPA: 3.30/4.00

Bachelor of Science in Computer Science; Cybersecurity

May 2025

Honors: Dean's Scholarship, Provost List (Spring 2024), UPE Computer Honors Society

Coursework: Cybersecurity, Network Security, Programming Languages, Software Engineering, Ethical Hacking

Organizations: Member of Theta Tau Pre-Professional Engineering Fraternity Inc, Hofstra NARI, WiCyS, & Hofstra CODE

Cornell University – NY

Completed August '23

Break Through Tech AI - Cornell Tech, Certificate in Machine Learning/AI Foundations

Completed April '24

SKILLS

Programming & Scripting: Python, Java, C++, C#, JavaScript, TypeScript, Bash | OOP, Automation REST APIs, Full-Stack Dev

Databases: SQL, MySQL, PostgreSQL, NoSQL (MongoDB), Schema Design, CRUD Operations

Machine Learning Tools: TensorFlow, PyTorch, JAX, Scikit-Learn, OpenCV, Numpy, Pandas

Cybersecurity: ServiceNow, CyberArk, Netskope, Q-Radar, Vulnerability Management, Risk Analysis, Technical Presentations

PROFESSIONAL EXPERIENCE

Hofstra Makerspace – Science and Innovation Center, Hofstra University

Sep '24 – Present

Technician Assistant | Visual Studio Code, Python, Java, TypeScript, JavaScript, Git Version Control, Documentation

- Diagnosed and resolved technical issues, applying root cause analysis and proactive monitoring to optimize system reliability.
- Assist in developing the Makerspace website using mostly Java & React, streamlining workflow management for over 200 student users.

OTC Markets – 300 Vesey, NYC

Jun '23 – Aug '23 | Jun '24 – Aug '24

Security Intern – Dynamic Cybersecurity Internship Program | Microsoft Office, Excel, Power Point, Python, Java, QA

- Developed automated Python scripts for log analysis & security risk detection, improving efficiency.

APG Asset Management – Chrysler Building, NY

Jul '22 – Aug '22 | Dec '22 – Jan '23

Resilience IT Intern/Transitional Employee | Microsoft Office, Excel, Power Point, Python, Java

- Conducted risk assessments for financial systems, ensuring SEC compliance.

PROJECTS

JobMate – Hofstra University | LLMs, Git version control, Collaboration, JavaScript

Senior Design Project – Job Matching Website and Extension

Sep '24 – Present

- Developing a job-matching web platform with React, Python, and Java, integrating Machine Learning for smarter resume parsing.
- Utilized Agile Scrum methodology, managing iterative sprints to refine project scope and improve efficiency in a fast-paced environment.

Physics Research – Hofstra University | JAX, Python

Semester Project with Professor Yang

Dec '24 – Present

- Applied JAX-based deep learning techniques to simulate electron movement in a honeycomb lattice.
- Investigated computational optimizations for large-scale physics simulations.

Google, Cornell Tech – Break Through Tech AI | Python, ML Libraries

AI Studio Project with Google – Generative AI explains Healthcare Cluster

Aug '23 – Dec '23

- Optimized AI data pipelines, improving model efficiency and inference speed for healthcare cluster analysis.

phishNet – Hofstra University | Python, Java, Cybersecurity, Databases

Software Engineering Term Project – Phishing detection web extension

Feb '24 – May '24

- Engineered an ML-powered phishing detection system using decision trees and neural networks.
- Tuned model hyperparameters to reduce false positives and enhance detection accuracy.

Webacy Web3 Security Data Analytics Extern | Blockchain, Java, Databases

Aug '24 – Sep '24

- Analyzed Web3 vulnerabilities and implemented data-driven security measures for blockchain integrity.

LEADERSHIP EXPERIENCE

Women in Cybersecurity – Hofstra Chapter

Aug '21 – Present

Secretary | Vice President | President

Aug '22 – May '24 | Aug '24 – Dec '24 | Jan '25 – Present

- Facilitated outreach events, increasing membership by 25% and fostering a supportive community for underrepresented groups in tech.