

# Alisha Patel

Cybersecurity Graduate • AI Projects • Fuzzing • Full Stack Developer



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## Technical Skills

- **Languages:** Python, C/C++, Java, JavaScript, SQL, Assembly
  - **Frameworks & Tools:** React, Flask, Node.js, Git, Docker, Postman, LibFuzzer, Clang, Wireshark
  - **Databases:** MongoDB, SQL, Azure Blob Storage
  - **Cloud & DevOps:** Azure, Docker, GitHub Actions, Linux VM, SSH, Bash
  - **Security & Analysis:** Fuzzing, Crash Clustering, Static Analysis, Vulnerability Research, Coverage Instrumentation
  - **Currently Learning:** AWS Cloud Security (Coursera), Terraform Projects
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## Highlighted Projects

### BankEase Financial Assistant (Jan 2025 – Apr 2025)

BankEase is a financial dashboard web app designed using React and styled with MUI for a professional user interface. I integrated MongoDB to store financial data such as account balances, expenses, and upcoming bills. I developed features like low-balance alerts, dynamic data visualization, and heuristic-evaluated usability improvements, ensuring the platform remained user-friendly and accessible.

[View Project](#)

### AI Image Classifier (TLCEngine) (Sep 2024 – May 2025)

This project involved building an AI-powered image classification web platform using React and Flask. I integrated advanced models like LLaVA and Ollama for intelligent tag generation and used MongoDB and Excel to store output tags. With Postman-tested APIs and RAG (Retrieval-Augmented Generation) model integration, the platform also supported dynamic furniture

staging. Deployment was managed through SSH on a VM, enabling real-time backend interaction.

## LibFuzzer Enhancement and Crash Visualization (Mar 2025 – May 2025)

I enhanced the LLVM LibFuzzer by developing new tools for crash clustering, mutation analysis, and visualizing code coverage using Python, and produced heatmaps to show fuzzing effectiveness.

[View Project](#)

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## Education

Stevens Institute of Technology

B.S. in Cybersecurity, May 2025 • Graduated with Honors

**Courses:** Data Structures, Algorithms, Software Development, Operating System, System Programming, Introduction to Web Development, System Security, Database Management, Human-Computer Interaction (HCI), TCP/IP Networking, Special Topics in Cybersecurity, Wireless Systems Security, Financial Management in Cybersecurity, Information Security and Law