

# SEBASTIAN SHIRAZI

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Springfield VA, 22152, United States

## EXPERIENCE

### • Ernst & Young LLP - Threat Hunt & TDR

Jun 2025 - Aug 2025

Cybersecurity Technology Consultant Intern

McLean, VA

- Developed KQL/SPL threat hunting queries for Slack and ShareFile, identifying IOCs and TTPs aligned with MITRE ATT&CK framework to enhance First American's cybersecurity detection capabilities
- Engineered automated SOAR playbook for AWS WAF/ACL rule deletion incidents, enabling real-time threat investigation and automated response actions that streamlined security analyst workflows
- Created MITRE ATT&CK Navigator dashboard mapping First American's defensive coverage against FIN7 threat group, visualizing security control gaps and deployment status across 50+ detection rules
- Conducted strategic research for AI defense solutions, delivering tailored security recommendations for First American's threat landscape

### • University of Virginia - Gen AI 3D Modeling

Jan 2025 - May 2025

Undergraduate Researcher

Charlottesville, VA

- Built a Unity pipeline linking GPT-4, Roslyn C#, and DALL-E for rapid text-to-3D asset generation in AR/VR
- Created a multi-angle evaluation process scoring accuracy and logging recurring model faults
- Resolved generation bugs and documented prompt/Unity fixes cutting ramp-up time for other users

### • Core4ce - Backend Software Developer

May 2024 - Aug 2024

Research & Development Intern

Arlington, VA

- Wrote RESTful lambda function connectors that service enrichment requests used in a commercial web-based TIP known as Cyberscape
- Utilized tools such as docker and git for containerization and source control, allowing for CI and CD work-flow
- Provided dev team with peer reviewing, shadowing, and live demonstrating of new features
- Successfully added 5 new API integrations from data brokers to Cyberscape, raising product total to 30

## EDUCATION

### • University of Virginia

Aug 2022 - May 2026

B.S. Computer Science / Data Science & Engineering Business Minor

Charlottesville, VA

- GPA: 3.75/4.00

## RELEVANT COURSEWORK

- **Computer Science:** Software Engineering, Data Structures and Algorithms 1/2, Computer Systems and Organization 1/2, Discrete Math and Theory 1/2, Cybersecurity, Computer Networks, AI (undergraduate)
- **Applied Mathematics:** Linear Algebra, Probability, Statistics

## PROJECTS

### • Event Planning Application

Dec 2024

Tools: Django, Heroku, AWS S3, SQLite



- Three-tiered event planning web application for creation of events such as parties, graduations, etc.
- Includes features to create a profile and log in via Google Sign-In, create / modify events, upload event itineraries / budgets, and allow other users to co-host events
- Full stack Python web app utilizing Django framework for MVC, Heroku for deployment, and Amazon S3 cloud storage for uploads

### • Simulated Multi-Level Page-table

May 2024

Tools: SSH, VSCode



- Simulates a multi-level page-table that stores mappings between physical and virtual addresses written in C
- Implements an allocate, de-allocate, and translate function to swap memory and construct pages
- Includes Makefile and configuration file which allows for changing of position bits and table levels

## SKILLS

- **Programming Languages:** Java, Python, JavaScript, C, KQL, SPL
- **Web Technologies:** Django, Flask, JavaFX, Bootstrap, JSON
- **Database Systems:** SQLite
- **Cloud & DevOps:** Heroku, AWS, Git, Docker
- **Security & Automation:** Threat Hunt, Threat Detection & Response, MITRE ATT&CK, Cortex XSOAR
- **Mathematical & Statistical Tools:** MATLAB, Excel
- **Research Skills:** Problem Solving, Leadership, Agile Development, Sales Experience, Customer Service