

SEBASTIAN SHIRAZI

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Springfield VA, 22152, United States

EXPERIENCE

• Ernst & Young LLP - Threat Hunt & TDR [EY]

Cybersecurity Technology Consultant Intern

Jun 2025 - Aug 2025

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 [UVA]

Undergraduate Researcher

Jan 2025 - May 2025

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 [Core4ce]

Research & Development Intern

May 2024 - Aug 2024

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

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

Aug 2022 - Dec 2025

Charlottesville, VA

- GPA: 3.76/4.00

RELEVANT COURSEWORK

- **Computer Science:** Software Engineering, Data Structures & Algorithms, Computer Systems & Organization, Discrete Math & Theory, Cybersecurity, Computer Networks, AI, ML, Database Systems
- **Applied Mathematics:** Linear Algebra, Probability, Statistics

PROJECTS

• Event Planning Application

Tools: Django, Heroku, AWS S3, SQLite

Dec 2024



- Engineered a full-stack event management platform using Django, Heroku, AWS S3, and Google OAuth, supporting account creation, event hosting, RSVPs, and secure file uploads
- Integrated third-party authentication (Google OAuth) and cloud storage (AWS S3) to handle user data and documents with scalability and security
- Deployed application on Heroku with persistent cloud storage, improving availability and enabling real-world usability

• Simulated Multi-Level Page-table

Tools: SSH, VSCode

May 2024



- Developed a multi-level page table simulator in C, implementing memory allocation, de-allocation, and address translation to mimic OS-level virtual memory management
- Configured system to allow dynamic tuning of position bits and table depth via Makefile and configuration files, demonstrating adaptability across hardware architectures

SKILLS

- **Programming Languages:** Java, Python, JavaScript, TypeScript, C, SQL, KQL, SPL
- **Web Technologies:** Django, Flask, React, Tailwind, Bootstrap, JavaFX, JSON
- **Database Systems:** SQLite, MySQL, PostgreSQL, MongoDB
- **Cloud & DevOps:** Heroku, AWS, Google Cloud, Git, Docker, OpenStack
- **Security & Automation:** Threat Hunt, Threat Detection & Response, MITRE ATT&CK, Cortex XSOAR
- **Mathematical & Statistical Tools:** MATLAB, Excel, R, Tableau
- **Research Skills:** Problem Solving, Leadership, Agile Development, Data Analysis