Gavin Fecko

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Detail-oriented and motivated Computer Information Technology student with hands-on experience in cybersecurity, data analysis, and software development. Skilled in Python scripting, vulnerability assessment, and data-driven problem solving. Adept at troubleshooting technical challenges, leading projects, and quickly adapting under pressure. Seeking an entry-level role where I can apply my technical expertise and problem-solving skills in Cybersecurity, SOC Analysis, or AI applications.

EXPERIENCE

Office Management - IT — Summer 2024 - Summer 2025
Back 2 Back Chiropractic, Bristow/Chantilly, VA

Managed daily IT operations, providing technical support and troubleshooting system outages to maintain operational efficiency. Developed and implemented secure data management protocols ensuring HIPAA compliance, integrity, and confidentiality.

Shift Lead — 2019 - 2025
Tony's NY Style Pizza, Oakton/ Chantilly, VA

Led daily operations across two high-volume locations, overseeing staff, managing inventory, and handling financial transactions. Streamlined workflows and implemented process improvements, demonstrating team leadership, operational analysis, and problem-solving under pressure.

Referee/Mentor — 2016-2022
Chantilly Youth Association, Chantilly, VA

Enforced rules and maintained fairness in youth basketball games. Applied critical decision-making, analytical evaluation, and leadership skills. Promoted in pay and position to referee for levels of basketball, including high school, as well as mentoring new referees.

TECHNICAL SKILLS

Programming & Data:
Python (Pandas, NumPy, Scikit-learn), SQL, Java, C/C++, JavaScript, R, Bash/Shell Scripting, JSON, HTML/CSS

Data Science & Machine Learning:
Scikit-learn, PyTorch, TensorFlow (familiar), Matplotlib, Seaborn, SAS, OpenAI APIs, LangChain (beginner), Reinforcement Learning (basics), Data Preprocessing & Feature Engineering, Prompt Engineering

Security Tools & Operating Systems:
Kali Linux, Wireshark, Nmap, OpenSSL, Linux/Unix System Administration, Windows, macOS, TCP/IP, OSI Model, Packet Analysis, Risk Assessment & Mitigation

Cybersecurity & Networking:
IDS/IPS Systems, Firewalls, VPNs, Vulnerability Assessment, Penetration Testing, Encryption/Decryption, Ethical Hacking Fundamentals, Threat Detection & Incident Response, DHCP, DNS, SSL/TLS, SSH, Network Security Principles

Cloud, Databases & DevOps:
AWS (EC2), Azure, Docker, MySQL, Node.js, Git/GitHub, VS Code, Eclipse, Continuous Integration/Deployment (CI/CD) Basics

Soft Skills:

Analytical & Strategic Thinking, Data-Driven Decision Making, Leadership & Collaboration, Technical Documentation, Creative Problem Solving, Effective Communication, Adaptability in Fast-Paced Environments

PROJECTS

- **Intelligent Grocery and Inventory Tracking App** (April 2025)
  - Developed a Python and JavaScript application to help college students manage grocery purchases and home inventory.
  - Implemented algorithms for automated inventory tracking, expiration alerts, budget planning, store comparison, and personalized item recommendations.
  - Ensured data integrity and applied secure handling of user preferences and inventory information, demonstrating proficiency in functional programming, algorithm design, and practical problem-solving.
- **Machine Leanring and Web Development** (Spring 2025)
  - **Kaggle Regression Model:** Used Python (Scikit-learn, Pandas) to clean, preprocess, and apply feature engineering to a large dataset for classification/prediction tasks. Models developed for the monthly Kaggle competition.
  - **Dog Adoption Website**: Designed and developed a responsive website using HTML, CSS, and JavaScript to showcase adoptable dogs and streamline user inquiries. Implemented secure form handling and data validation to ensure user input safety and reliable data submission.
- **Blynk IoT Security Project** (Kali Linux, Wireshark) (Spring 2025)
  - Simulated SYN flood DoS attacks and analyzed packet captures to detect network anomalies using Wireshark.
  - Evaluated IoT device vulnerabilities and developed IDS-based detection techniques.
  - Used Kali Linux, OpenSSL, and packet inspection filters to assess TLS/SSL traffic security.
- **Automated Pill Dispenser Using Arduino** (Fall 2024)
  - Developed as part of a larger Smart Home Capstone project.
  - Implemented C++ logic to manage precise medication schedules, integrating sensors and actuators for accurate dispensing.
  - Added IoT connectivity for remote monitoring and logging of dosage history.

EDUCATION

James Madison University **2021-present**

Bachelor of Science (BS) Degree in Computer Information Technology
Minor: Math and Computational Analytics | Expected Graduation: December 2025

Relevant Coursework

Network Security, Ethical Hacking & Penetration Testing, Applied Cryptography, Digital Forensics, IoT Security, Cybersecurity, Advanced Networking, Operating Systems, Data Structures & Algorithms, ML, OOP in Java, Database Management Systems, Web & Mobile App Development, Mathematics, Statistics, Machine Learning, Artificial Intelligence, Data Mining & Analysis, Computational Analytics, Physics, Calculus

LEADERSHIP & COMMUNITY ENGAGEMENT

- **Student of the Year Candidate 2021:** Led a Leukemia and Lymphoma Society Fundraising Campaign that raised **$30k+**, demonstrating exceptional planning and team collaboration to achieve one of the highest fundraising totals in the region.
- **Community Roles:** Freshman Orientation Guide (FROG) at James Madison University; Volunteer at Wolf Trap Animal Rescue and Harrisonburg-Rockingham SPCA.
- **Academic Achievement:** National Honor Society (4x) and Academic Athlete Award (4x), 2017–2021.