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I am a passionate and driven software engineer with a proven track record of building and explaining complex technical products. My experience includes creating technical resources and educational content, with a focus on AI/ML tools and LLMs. I have also honed my skills in data modeling, orchestration, and cloud automation to ensure efficient and scalable solutions. Additionally, I bring advanced programming expertise in Python and React, complementing my ability to lead Figma design for complex UIs. My approach is rooted in agile methodologies, ensuring seamless integration from conception to production while leveraging robust tools like GitHub to deliver optimized systems.

EDUCATION

California State University - Monterey Bay   **December 2024**
B.S., Computer Science
Capstone Award for Innovation (2024)

WORK EXPERIENCE

University of California   **Oakland, CA (Remote)**
Security Engineer   *March 2025 - Present*

- Helped develop standardized workflows and automation for UC-wide vulnerability detection and mitigation across MacOS and Windows endpoints, supporting a systemwide cybersecurity and compliance initiative.
- Investigated security risks in fringe and unmanaged applications, writing custom remediation scripts and policies to address non-standard vulnerabilities, leveraging innovative thinking and advanced troubleshooting skills.
- Built a unified dashboard integrating Rapid7, Jamf, BigFix, and ServiceNow (SaaS), improving threat visibility and enabling more efficient SecOps response through real-time database and asset data aggregation.
- Automated asset tracking and compliance monitoring through cross-platform scripting (Python, Bash, PowerShell), reducing manual workload and improving coverage across multiple operating systems.
- Coordinated with IT teams to align endpoint security practices with compliance standards, streamlining reporting, supporting project management efforts, and improving interdepartmental collaboration in a cloud computing environment.

Great Wolf Resorts   **Chicago Corporate Office (Remote)**
Security Support Engineer   *May 2023 - March 2025*

- Developed and maintained Python automation scripts for hybrid Azure tenant management, deploying updates for Carbon Black agents, Citrix patching, and BitLocker device enforcement across 10,000+ endpoints.
- Automated security certificate deployments using CrowdStrike RTR and PowerShell, preventing service disruptions for critical teams and saving an estimated 200+ hours in manual interventions annually.
- Engineered a PowerShell interface integrated with Microsoft Graph API for managing distribution lists of 10,000+ users, eliminating human error and reducing annual manual workload by 500+ hours.
- Built SQL log query frameworks in Rapid7 with Pandas/NumPy analytics pipelines, creating dynamic visualizations to detect suspicious behavior and inform executive decisions on security posture.
- Led security awareness campaigns via KnowBe4, developing custom Python tools to analyze phishing simulation data, transforming raw metrics into actionable insights that improved employee compliance rates by 25%.

Simple.biz   **Durham, NC (Remote)**
Freelance Web Developer   *August 2022 - May 2023*

- Delivered production-ready websites with optimized performance and SEO enhancements (e.g., alt tags, meta descriptions), incorporating automation scripts for build processes that improved search rankings and client visibility.
- Implemented WCAG/ADA compliance guidelines through automated testing tools like Selenium, ensuring inclusive web applications and boosting usability scores while reducing accessibility-related issues.
- Conducted cross-browser/device compatibility testing with scripted automation, resolving discrepancies and achieving a 30% decrease in user-reported issues across platforms.

TECHNICAL SKILLS

Programming Languages: Swift, Python, Bash, C/C++, TypeScript, PowerShell, Jupyter, Java, SQL

Frontend: Next.js, Tailwind CSS, Figma, MUI, React.js, Vite, Vue.js

Backend: FastAPI, Spring Boot, Django, Flask, .NET, RESTful & GraphQL API Development, Express.js, Node.js

Cloud & DevOps: Kubernetes, Azure, Ansible, Google Cloud Platform (GCP), CI/CD (GitHub Actions, Jenkins), Lambda, Cloud Infrastructure, Docker, Data Pipelines, AWS, Terraform

AI & LLM Tools: LM Studio, LLMs, LangChain, Ollama, ML/AI Models, Claude Code, Vector Databases (Chroma, Pinecone), MLX

Automation & Productivity: Airflow, PowerToys, Git, Selenium, DBT Core, Shell Scripting, Crontab, GitHub Copilot, Postman, Raycast, Command-Line Scripts/Utilities, GitHub, Meltano

Security & Operating Systems: AWS Security Services, Identity Systems, SIEM, SOX, Encryption, IAM, BigFix, CISSP-ISSAP, ServiceNow, API Security, GIAC, Incident Response, Penetration Testing, SAST (Static Application Security Testing), Authorization (authZ), Vulnerability Management, Rapid7, Application Security (AppSec), Azure Security, CrowdStrike, Jamf, TOGAF, Secure Systems, Authentication (authN), SABSA, OWASP Top 10, CCSP, Web Security Testing (Burp Suite, OWASP Juice Shop)

Databases: MongoDB, Databricks, MySQL, PostgreSQL, Snowflake, DynamoDB, Apache Kafka

CERTIFICATIONS

AWS Certified Cloud Practitioner *January 2025*