

Jessie Anderson

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Full-stack developer with 8+ years experience in software development and currently completing Google Cybersecurity Professional Certificate. Experienced in **Python**, **Linux**, **SQL**, and **JavaScript**.

RELEVANT SKILLS & EXPERTISE

Secure Software Development: Python/Flask, API Security, Authentication & Access Control, SQL, QA Automation (Selenium)

Networking & Infrastructure: TCP/IP, DNS, Firewalls, Network Security

Risk, Compliance & Frameworks: FDA-regulated Environments, Vulnerability Assessment, Security Frameworks & Controls, Risk Mitigation, Documentation, Audit Readiness

PROFESSIONAL EXPERIENCE

Software Developer • Provide LLC • Remote

09/2024 - Current

- Early engineer (#2) at an early-stage startup, partnering directly with the founder to shape product architecture, feature prioritization, and technical strategy.
- Containerized the **Flask** application using **Docker** and implemented a multi-service architecture with **PostgreSQL**, enabling automated database seeding, migrations, data imports, and schema resets dependent on verified container health — improving reliability across local and production environments.
- Refactored **authentication** and **authorization** layers to fully leverage **Flask-Security**, simplifying the codebase while strengthening access controls, secure admin password resets, and custom unauthorized workflows.
- Increased scalability and configurability by replacing hard-coded logic with environment-driven configuration and admin-controlled settings.
- Modernized frontend usability and branding using **Bootstrap** and **JavaScript**, delivering a more polished and intuitive user experience.

Personal Development and Family Sabbatical

09/2019 - 08/2024

- Homeschooled two children, developing curriculum with emphasis on STEM and project-based learning.
- Completed Bachelor's degree in Computer Science (online, part-time).
- Volunteered in environmental conservation, including sea turtle rescue efforts.

Software Developer • Varian Medical Systems • Remote

03/2018 - 08/2019

- Continued development on Mobius 3D, a radiation oncology software acquired by Varian for its industry impact and innovation.
- Partnered with UX designers and **cross-functional teams** to improve accessibility and enforce branding consistency, implementing frontend changes informed by usability testing and research.
- Delivered responsive, cross-browser UI components with **JavaScript**, **CoffeeScript**, and **HTML/CSS** to meet modern accessibility standards.
- Maintained and enhanced **REST APIs** with **Python (Flask)** and **CouchDB**, resolving scalability and performance issues.
- Improved reliability and user experience through **Selenium**-based automation testing.
- Participated in **Agile/Scrum** training and applied practices in sprint planning, daily stand-ups, and retrospectives to enhance team collaboration and delivery.

Software Developer • Mobius Medical Systems • Remote

11/2014 - 02/2018

- Early Engineer (#6) shaping technical direction and influencing feature prioritization in collaboration with product leaders.
- Led modernization of outdated front-end libraries (e.g., Zurb Foundation), driving adoption of **responsive design** and updated UI components. This not only improved usability across devices but also enabled the sales team to demo software on tablets, expanding reach at industry events.
- Built and iterated on core web application modules leveraging **Python (Flask)**, **CouchDB**, **JavaScript**, and **CoffeeScript**.
- Optimized CouchDB performance through robust querying and view creation, supporting scalable growth.
- Developed automated integration tests with Python + **Selenium WebDriver**, strengthening cross-browser reliability.
- Streamlined development workflows and enhanced compliance readiness by integrating modern tooling (**Git**, **Jenkins**, **Highcharts**, **Parsley.js**) and aligning processes with FDA requirements.

Engineering Intern • Fedora Infrastructure Team • Remote

01/2013 - 04/2013

- Built backend analytics tools for the Fedora project using **Python** and **SQLAlchemy** to support project activity monitoring.

- Refactored legacy database structures and authored **database migrations** with Alembic, improving data integrity and maintainability.
- Delivered assigned projects ahead of schedule while receiving technical mentorship from seasoned Red Hat engineers.

QA Automation Engineer • EventRay • Santiago, Chile

09/2012 - 02/2013

- Developed automated browser tests with **Selenium WebDriver** and **Python** to validate product functionality across multiple environments.
- Organized structured test suites addressing unit and integration scenarios, improving release confidence.
- Collaborated in an Agile QA team to document and report bugs, directly influencing product usability and quality.

EDUCATION, CERTIFICATES, & CERTIFICATIONS

Google Cybersecurity Professional Certificate • Merit America, Virtual

02/2026

- Cultivated holistic understanding of cybersecurity's critical role in organizational security, privacy, and success, including how to systematically identify and mitigate risks, threats, and vulnerabilities
- Gained practical experience with **Linux**, **SQL**, **Python** and utilized **SIEM tools**, **IDS**, and **network protocol analyzers** for proactive threat management
- Applied knowledge to real-world scenarios, developing skills in proactive **threat detection** and **response** through completion of dynamic hands-on projects, including: conducting a simulated **security audit**, responding to a **cyber incident**, analyzing **vulnerable systems**, and completing an **incident handler's journal**

B. S. in Computer Science (3.93 GPA) • University of the People, Pasadena, CA

08/2023

- Relevant coursework: Data Structures & Algorithms, Software Engineering, Operating Systems (1 & 2), Database Systems (1 & 2), Web Programming, Computer Systems, Communications & Networking

Google IT Support Professional Certificate • Coursera, Virtual

03/2022

- Developed a comprehensive understanding of IT support's critical role in maintaining organizational infrastructure, productivity, and security, including how to systematically troubleshoot, configure, and maintain systems and networks.
- Gained practical experience with **Windows**, **Linux**, **networking**, **cloud services**, and **command-line tools**, while applying IT support frameworks and best practices.
- Applied knowledge to real-world scenarios, developing skills in technical problem solving and **system administration** through completion of hands-on projects, including: setting up and **securing user accounts**, **configuring networks**, diagnosing hardware and software issues, and documenting **IT support** procedures.