Dillon Prendergast

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U.S. Citizen • Based in Brazil (GMT-3) • Authorized for Remote Work

Software Engineer focused on cybersecurity, automation, and structured data workflows. Proficient in RESTful API development, containerized environments, and scalable test frameworks. Skilled in translating technical insights into stakeholder-aligned solutions and leading cross-functional collaborations. Passionate about solving real-world problems through efficient software and impactful data.

Experience

Sepal AI Remote
DevOps Engineer *August 2025 – Present*

- Building Dockerized environments and MCP tools in Python for security evaluations, including designing problem sets to reproduce and patch vulnerabilities
- Creating a unified testing environment for bioinformatics workflows while streamlining DevOps with offline build pipelines, and containerized orchestration to ensure scalable and reproducible evaluations.

Johns Hopkins University Applied Physics Lab Laurel, MD
Cybersecurity Software Engineer *June 2020 – July 2025*

- Directed evaluations of cybersecurity posture and system requirements for a sponsor system, producing bi-monthly reports that guided evolving program needs.
- Authored and led a research proposal to secure genomic data exchanges using API gateways and digital signatures - enhancing research workflow integrity.
- Built a multi-threaded ZMQ socket manager in Python with OpenTelemetry to relay system messages across remote servers; integrated with an Angular dashboard for real-time observability.
- Refactored a legacy C backend into a Python/FastAPI/SQLAlchemy stack, enabling seamless integration with a modern frontend and improving feature velocity.
- Created a text extraction and enrichment pipeline using NLTK and regex, deployed via Streamlit with SQLite backend—delivering novel, visualized insights to sponsors.
- Developed a Selenium-based test automation framework for Kibana dashboards, reducing QA workload by 70% across stakeholder teams.
- Contributed to Zero Trust architecture assessments using MITRE ATT&CK and DODCAR methodologies and led scaling of classified analysis environments to enterprise maturity.

Projects

Trading Card Sales Automation *January 2025 – July 2025*

- Engineered an automated pipeline in Google Apps Script to parse metadata and pricing from images and URLs, normalize data, and auto-generate structured eBay listings—supporting 100+ monthly sales with accuracy and 100% customer satisfaction.

Mancala AI — Reinforcement Learning Course Project *February 2021 – April 2021*

- Implemented Monte Carlo, Q-Learning, and Temporal Difference algorithms on a custom Mancala engine to evaluate gameplay strategies and benchmark learning efficiency across episodes with performance metrics—demonstrating applied machine learning fundamentals.

Education

Florida State University Tallahassee, FL
Master of Science in Computer Science *January 2019 – May 2020*
Bachelor of Science in Computer Science *August 2015 – December 2018*

Technical Skills

Programming & Scripting: Python, JavaScript, TypeScript, SQL, Regex, Bash, LaTeX
Frameworks & Libraries: Angular, Django, FastAPI, Streamlit, SQLAlchemy, NLTK, Pandas, Selenium, Google Apps Script, FastMCP
Cloud, Databases & Tools: AWS, Docker, GitLab CI/CD, SQLite, MongoDB, Git, Docker, Kibana
Security & Architecture: REST APIs, Zero Trust, DoDCAR, MITRE ATT&CK
Specialties: Automation, Containerization, Web Scraping, Data Integration, Reinforcement Learning

Languages

English: Native | **German**: B1 | **Brazilian Portuguese**: A2