Nathaniel Good

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EDUCATION

Bachelor of Science, Computer Science 09/2022 – 06/2026
University of California, Santa Cruz Santa Cruz, CA
GPA: 3.42
Relevant Coursework: Data Structures and Algorithms, Algorithm Analysis, Operating Systems, Computer Networking, Artificial Intelligence, Distributed Systems, Computer Architecture, Software Engineering, Computer Security, Machine Learning, Discrete Mathematics

TECHNICAL SKILLS

Languages
Python, JavaScript, Go, C++, C, Bash, SQL

Frameworks and Libraries
Flask, React, Next.js, Vite, Pandas, PyTorch, scikit-learn, Pytest

Tools and Platforms
Git, GitHub Actions, Firebase, Google Cloud Platform, PostgreSQL, MLflow, Jira, REST APIs, OAuth, Linux
Docker

EXPERIENCE

Data Analyst Intern 06/2024 – 08/2024
AppCensus
- Analyzed data from 200+ mobile apps and delivered findings that doubled SDK detection coverage in the company's internal database
- Added JavaScript and Flask features to an internal SDK analysis tool, improving validation and analyst workflows

Open Source Contributor 06/2023 – 09/2023
Google Summer of Code at Mitmproxy
Feature write-up: *mitmproxy.org/posts/har-support* 🔗
- Implemented HAR import/export functionality for mitmproxy, facilitating seamless conversion between HAR/ZHAR files and HTTPFlow objects
- Standardized variations in HAR files across different browsers and tools, addressing challenges with request bodies, binary data, HTTP version discrepancies, and malformed inputs
- Ensured 100% Pytest code coverage for corrupted files, WebSocket and error flows, and CI-validated import/export behavior

Junior Data Scientist 05/2021 – 06/2023
Good Research
- Created Python tooling for web-tracking analysis, including tracker categorization, IP analysis, and site comparison
- Trained a permission-prompt classifier with PyTorch and MLflow, achieving 94% accuracy on 383 labeled screenshots across 13 apps
- Developed an internal React and Flask onboarding tool that reduced new-engagement setup from 3+ manual actions across Harvest and Zulip to a single form submission

PROJECTS

Slug Events 01/2025 – Present
Lead Developer / Product Manager
- Launched a full-stack event platform with Next.js, Flask, Firestore, and Google Maps for community event discovery, event submission, and RSVP
- Developed the Flask backend and deployment infrastructure, including Google OAuth, event and RSVP APIs, calendar sync, Firebase integration, and CI
- Led a 5-person team using Agile/Scrum workflows, managing scope and coordinating delivery across frontend, backend, and deployment work

Splitify 06/2024 – Present
Full Stack Developer
- Engineered a Flask and React/Vite playlist-splitting tool using OAuth, REST APIs, and Gaussian Mixture clustering
- Built configurable controls that made playlist grouping behavior tunable without backend code changes
- Optimized backend processing for 1,000+ song playlists with L1 in-memory and Postgres-backed shared caching, cutting runtime from 20 seconds to 2.5 seconds (88% faster)
- Automated Firebase and GCP deployments with GitHub Actions CI/CD, adding 7 checks across build, deploy, Pylint, CodeQL, and GitHub secret scanning