

Rowan Cooper

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SOFTWARE ENGINEERING EXPERIENCE

Hawaii Wildfire Management Organization (continuation project) [\(link\)](#)

Mar 2026 - Aug 2026

Software Engineering Intern

Hawaii, USA (remote)

- Enabled address searches for road access and wildfire exposure across 368,000+ Hawai'i records, extending U.S. Forest Service-funded HWMO work.
- Applied Dijkstra's algorithm to road networks and weighted fuel grids to assess access and wildfire exposure.
- Integrated University of Hawaii Climate Data Portal ignition maps informed by on-island Mesonet stations with terrain, weather, and fuels through a tested, cached Python API and GeoPandas pipeline.
- Flagged potential building-map gaps using PyTorch/U-Net++ aerial-image segmentation; evaluated 196 tiles across eight islands with 0.855 object F1 against reference map labels.

Hawaii Wildfire Management Organization

Jun 2025 - Sep 2025

Software Engineering Intern

Hawaii, USA

- Partnered with HWMO to analyze Kaua'i road connectivity using Python, GeoPandas, and ArcGIS, identifying bottlenecks and evaluating connections to inform planning for three evacuation routes.

The Young Consultant | Plenti Space [\(link\)](#)

Oct 2024 - Jan 2025

Software Engineering Intern

London, UK (remote)

- Redesigned Plenti Space's customer survey and presented findings; Created a Python/SQLite market explorer combining branching survey data with 17 other indicators across nine English regions.

SOFTWARE ENGINEERING PROJECTS

Citation Tracker [\(link\)](#)

Sep 2026

Citation provenance | Python, Neo4j, D3.js

- Built a research tool tracing "citation chains" to primary sources, reported inaccurate claims to publishers.
- Built a Python/Neo4j pipeline retaining source relationships, numeric values, ranges, and units for 800+ extracted claims; used regex normalization and Jev to classify support and contradictions.

Atlas News Intelligence [\(link\)](#)

Aug 2026

Agent Native Builders Hackathon | [third place agentic hackathon winner](#)

San Francisco, CA

- Created a news explorer to demonstrate how the same story is covered differently in different countries, analyzing both viewership per country and semantic story changes per country.
- Used MapLibre coverage maps, country-based rankings, linked articles, and a React/TypeScript frontend.
- Deployed Cloudflare Workers/D1 APIs supporting REST, MCP, and A2A; developed with Cotal agents on Tenki using Nebius models and validated deployment with 25 production checks.

AdvisrLab | UW Advising Assistant

2026

Year-long Informatics capstone | Five-person team

- Prototyped and student-tested an advising chat interface in UW Purple with UW advisors, informed by 29 student surveys; covered 40+ FAQs with official citations and human-advisor referrals.
- Earned satisfactory advisor ratings on 28/29 answers (96.6%), with 3/29 referrals to human advising staff (10.3%); integrated Canvas, UW resources, and UW Time Schedule APIs for course planning.

EDUCATION

University of Washington

Jun 2026

Bachelor of Science in Information Science

Seattle, WA

AGENTIC TECH STACK + SKILLS

Languages: Python, TypeScript, JavaScript, SQL, Java, C++, HTML/CSS

Engineering: React, MapLibre, D3.js, PyTorch, GeoPandas, Neo4j, SQLite, Workers/D1, Git, pytest

My tech stack: Codex, Cognee, Cotal, Tenki, Nebius, Tavily, Runtype, Jev