

ROWAN COOPER

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EDUCATION

University of Washington, Seattle

Jun 2026

Bachelor of Science in Information Science

AI INTEGRATION EXPERIENCE

Hawaii Wildfire Home Risk Explorer | Hawaii, USA (remote)

Jan 2026– Present

Continuation of Previous Internship Work

- Built and deployed a statewide Hawaii home-risk web application spanning 581 zones and ~402,000 addresses across eight islands, returning separate evacuation-access and directional wildfire-exposure screenings from an address search.
- Built a tested, cached Python API and GeoPandas analysis pipeline integrating roads, buildings, addresses, terrain, weather, fuels, and fire-history data with SQLite/GeoPackage for property-level analysis.
- Modeled home-to-major-road evacuation access to flag vulnerable properties; built a PyTorch/U-Net++ pipeline to reconcile building sources, queue mapping gaps for review, and detect roadblocks

Hawaii Wildfire Management Organization | Hawaii, USA

Jun 2025– Sep 2025

Software Engineering Intern

- Partnered with HWMO staff to define requirements and deploy a dashboard centralizing 70+ wildfire-mitigation projects, owners, and status updates.
- Translated staff-defined evacuation concerns into a GIS prototype for identifying one-way-in/one-way-out neighborhoods from road and building data.

UW Informatics Advising Assistant | Seattle, WA

Jun 2025– Sep 2025

University of Washington Capstone Project

- Designed and tested an LLM advising assistant that helped UW Informatics students compare complicated course pathways and routed recurring questions to advising staff for review.
- Conducted extensive user research to find student pain points and optimize the user experience.

The Young Consultant – Plenti Space | London, UK (remote)

Oct 2024– Jan 2025

Software Implementation

- Built an SQL database using 2024 European census data for market research for the client, a robotics startup.
- Used targeted questions to collect 400+ responses about product preferences, sorted data with SQL.

ADDITIONAL WORK

Hackathon Coordination App | Seattle, WA

Sep 2025 – Dec 2025

University of Washington Student Project

- Collaborated with a four-person team through a shared Git repository and pull requests to build and deploy a React/Firebase hackathon-coordination app with real-time CRUD operations and persistent state.

RNL ScaleFunder | Seattle, WA

Jan 2025 – Jun 2025

Development Representative (sales)

- As an ambassador at RNL, I engaged with UW alumni through outbound calls to strengthen donor relations and fundraising efforts.

iD Tech Camps | Berkeley, CA

Jun 2024– Aug 2024

STEM Educator

- Instructed STEM courses for 50+ students, tailored lessons in Scratch, Python, Arduino, Java, and Lua.

TECH STACK

Languages: Python, JavaScript, SQL, Java, R, HTML/CSS

Technologies: SQLite, GeoPandas, PyTorch, React, Firebase, Leaflet, pytest, Git, Nginx, DigitalOcean, Tableau

Agentic Engineering Tech Stack: Tavily (internet search), Cotal (agent communication/working with others), Tenki (sandboxes + security testing), AIsa (Keeping track of APIs), DigitalOcean (hosting server).