

Will Campbell

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EDUCATION

App Academy

Full stack software engineering

September 2023

Colby College, Waterville, ME

Major: Environmental Science, *Minor:* Economics

Activities: Division I Varsity Men's Squash, Outing Club, Fly Fishing Club, Bocce Club

Bachelor of Arts, May 2022

SKILLS

Javascript, React, Redux, Python, Flask, NodeJs, PostgreSQL, Express, OpenAI API, ChainForge, SQLAlchemy, SQLite, HTML5, CSS3, Git, Postman, json, AWS, Render, Mocha, R, ArcGIS Pro, DBeaver

EXPERIENCE

AI Research Assistant, HealthX Lab at Dartmouth College

September 2023 - Present

- Collaborated with a Computer Science PhD student to design a study and create a mobile application to investigate the influence of integrating large-language models into a self-journaling app.
- Leveraged the OpenAI API, Chainforge, and LangChain to analyze mobile sensing data and daily surveys to create AI-generated prompts for users
- Partnered with stakeholders to establish a comprehensive content moderation system, preventing AI-related mental health risks and ensuring ethical app implementation throughout the study.

GIS Research Assistant, Buck Lab for Climate & Environment

June 2021 - April 2022

- Selected by faculty for a grant to create a metric for determining climate vulnerability of 23 communities in the Abaco Islands through demographic and GIS data, collected from government agencies, NGO's, and stakeholders.
- Leveraged ArcGIS Pro and data analysis to create 15+ maps showcasing climate vulnerability, guiding policymakers in identifying vulnerable communities and allocating resources effectively.

R Data Analyst, Colby Environmental Science/Irland Group

March - August 2021

- Performed comprehensive statistical analysis using R on long-term climate data, revealing significant shifts in ice-out patterns across 27 Maine lakes and highlighting climate change's impact on waterway dynamics.
- Collaborated with a team of researchers to interpret and present findings, leading to actionable insights on the health of Maine waterways and informing environmental management strategies.

PROJECTS

CoinClone | [Github](#) | [Live](#)

javascript • python • react/redux • flask • postgresSQL • recharts

- Developed end-to-end functionality for trading simulations, watchlists, real-time cryptocurrency data, and a community forum using SQL, Express, Redux, and dynamic React components.
- Enhanced platform reliability and user experience (UX) by integrating two third-party cryptocurrency APIs for real-time data retrieval and visualization.
- Optimized front-end functionality through React/Redux architecture, efficiently managing global state, orchestrating data flow, and ensuring a responsive user experience.

VancouverEats | [Github](#) | [Live](#)

javascript • python • react • redux • flask • postgresSQL • AWS S3

- Collaborated as a member of a 4-person team, following standard Git procedures for efficient version control, and maintaining an organized development environment through the use of Kanban Boards and SCRUM methodologies.
- Implemented an AWS s3 bucket for image storage, ensuring scalable and secure handling of media assets, resulting in faster load times and enhanced user experience.