

# Aidan McEnaney

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## EDUCATION

### University of Maine

MA in Mathematics | GPA: 3.9

Expected May 2025

Orono, ME

### University of Maine

BS in Mathematics

Minor in Computer Science

May 2023

Orono, ME

## SKILLS

### Programming

Experienced:

• Python • Java • C • Bash • R

Familiar:

• C • MATLAB • C++ • SQL  
• HTML/CSS/JavaScript • TCI  
• Lisp • Haskell • BASIC

### APIs

• SentinelHub • SentinelSat • AWS

### Operating Systems

• Windows • Linux • OSX

### Other

• Git • STAC • Django •  $\LaTeX$   
• Geospatial Data Analysis  
• JIRA • Docker & Kubernetes

## COURSEWORK

### Computer Science

• Data Science  
• Object Oriented Programming  
• Functional Programming  
• Data Structures & Algorithms  
• Computer Architecture  
• Artificial Intelligence

### Mathematics

• Mathematical Statistics  
• Bayesian Statistics  
• Mathematical Modeling  
• Stochastic Systems  
• Monte Carlo Methods  
• Differential Equations  
• Linear Algebra  
• Asymptotic Analysis

## EXPERIENCE

### Student Consultant | Zal.ai

Jan. 2023 – Present | Orono, ME

- Assisted in creating an AI and LLM to provide career advice to users.
- Collaborated with cross-functional teams to develop and implement AI-powered solutions for real-world business challenges.

### Teaching Assistant | University of Maine, Math Dept.

Sept. 2023 – Present | Orono, ME

- Lead biweekly recitations, a structured time for students to work on problems as a group.
- Held weekly office hours in the math department's help center.
- Gave feedback and graded student's homework and group work.

### Math Modeling Intern | Ferda Farms & Innovate For Maine

June 2023 – Sept. 2023 | Orono, ME

- Performed independent research on current spectrometry and shellfish models in order to develop and implement a mathematical model to predict the movement, location and density of oysters over time, for use for oyster farms.
- Worked with several satellite APIs including but not limited to SentinelHub and SentinelSat to receive and analyze ocean data.
- Assisted in Development of website using Django framework with Python.

### Student Consultant | Black Bear Consulting Corps

Jan. 2023 – June 2023 | Orono, ME

- Worked closely with a Maine based oyster farm to create software to aid in the inspection and reporting for oyster farms in Maine.
- Created a website and database for said company based on required specifications.
- Created marketing material and worked on the website for PowerWise, a company in the solar industry.

### Undergraduate Research Assistant | CompuMAINE Lab

July 2022 – June 2023 | Orono, ME

- Worked on updating and improving upon the lab's image analysis code for use in cancer detection.
- Attended presentations for and participated in research for other lab members.

### Web Developer | Franco American Centre

Dec. 2021 – Sept. 2022 | Orono, ME

- Worked on a team as a part of a multi-university collaboration to build a digital research tool for Franco American archives.
- Worked as the sole IT technician for the department.
- Managed a wide variety of projects including but not limited to: Audio Archival, Cross-College Communication, Computer Management, and Social Media Management.

### Software Development Intern | Innovate For Maine

June 2022 – Aug. 2022 | Orono, ME

- Performed extensive research in various fields in order to develop algorithms and products for a multitude of companies with whom we had partnered with.
- Created and set up quickstart environments for our clients using docker and kubernetes.