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

APIs
• SentinelHub • Sentinelsat • AWS

Operating Systems
• Windows • Linux • OSX

Other
• Git • LaTeX • Django • FastAPI
• 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

Teaching Assistant | University of Maine, Math Dept.
Sept. 2023 - Present | Orono, ME
- Conducted biweekly recitations and weekly office hours, fostering collaborative problem-solving and offering academic support to students.
- Provided comprehensive feedback and grading on student assignments, ensuring clarity and consistency in assessment practices.

Student Consultant | Zal.ai
Jan. 2024 – May 2024 | Orono, ME
- Led a team in documenting existing data sources and establishing data integration protocols for a comprehensive database solution.
- Designed and implemented a data schema to effectively organize and integrate data from diverse sources, ensuring data consistency and reliability.
- Spearheaded the development of a FastAPI-based API for seamless interaction with the integrated database, providing efficient data access and retrieval functionalities.

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 SetninelHub 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
- Collaborated with a Maine-based oyster farm to develop customized software aimed at enhancing inspection and reporting processes, optimizing operational efficiency, and compliance.
- Designed and implemented a user-friendly website and database tailored to the specific needs and requirements of the oyster farm, facilitating data management and accessibility.

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.
- Engaged in research activities and attended presentations to support the work of fellow 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.
- Managed a wide variety of projects including but not limited to: Audio Archival, Cross-College Communication, Computer Management, and Social Media Management.