Haley Ogier

Wakefield, MA

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339.293.2458
Personal Portfolio
LinkedIn
Github

EDUCATION:

Bachelor of Science in Computer Science and Mathematics (Data and Statistics) **May 2026 - 3.8/4.0**

University of Massachusetts Amherst: Manning College of Information and Computer Sciences

Relevant Coursework: Data Structures, Object-Oriented Programming, Software Development, Artificial Intelligence, Programming Methodologies, Fundamentals of Programming, Calculus 1 & 2, C Programming, Linear algebra, Statistics, Reasoning Under Uncertainty

Extracurriculars: CodePath Interview Prep Course, Rewriting the Code (RTC), Society of Women Engineers (SWE)

SKILLS AND CERTIFICATES:

Languages: Python, SQL, Java, C, C++, Typescript, Javascript, CSS, HTML, Swift, P Language

Tools and Libraries: React.js, Node.js, PyTorch, Pandas, NumPy, Matplotlib, Jupyter Notebooks, Github/Git, Docker, AWS, Jenkins, Google Cloud Platform, MongoDB, Arduino and VSCode

Certificates: Machine Learning & GCP, Using Machine Learning in Trading and Finance, Version Control and Git, Introduction to iOS Mobile Application Development, Introduction to Trading, Trading Algorithms

EXPERIENCE:

Software Engineer Intern at Fidelity Investments June 2024 - August 2024

Merrimack, NH

- **Collaborated** with a team of 6 software engineers to develop an internal health status page, monitoring the health of business units and their products in order to reduce downtime to over 100 employees.
- Utilized **AWS**, **Docker**, **Jenkins**, and **PHP** to create a robust platform that expedited issue resolution and minimized downtime.
- Employed **Agile methodologies** under the guidance of a Scrum Master, enhancing team synergy and transparency.
- Improved inter-departmental collaboration and operational responsiveness to over 7 teams.

Undergraduate Course Assistant September 2024 - Present

University of Massachusetts Manning College of Computer Science and Informatics

- Assisted and supported over 35 students in mastering **Object-Oriented Programming** using **Java** and **Python**, ensuring a deep understanding of key concepts.
- Provided one-on-one tutoring to over 30 students, significantly improving their coding skills and academic performance by breaking down complex programming topics into manageable segments.

Student Ambassador March 2023 - Present

University of Massachusetts Manning College of Computer Science and Informatics

- Served as an outstanding student leader at UMass Amherst, representing Manning College, exemplifying academic excellence and inspiring both prospective and current students.

Founder and Educator: Young Girls In STEM Summer Program July 2022 - August 2022

Wakefield, MA

- Led the design and delivery of intellectually challenging problem-solving exercises tailored to the scientific interests of 35 young girls, fostering a passion for STEM disciplines.

SIDE PROJECTS:

Momentum Trading Algorithm (Python, NumPy, Pandas, Matplotlib) March 2024 - July 2024

Developed a Python-based trading algorithm designed for the SOXL ETF, using key technical indicators like Stochastic RSI, RSI, EMA, and ATR to determine optimal buy and sell points. It includes backtesting functionality, which showed impressive results over 719 days achieving a total return of **154.96%** and average annual return **(CAGR) of 60.87%**. This algorithm significantly outperformed the QQQ benchmark (CAGR: 21.6%) by approximately **3x**.

Codestrike Leetcode Game (Javascript, HTML, CSS, React.js, Node.js) November 2024 - December 2024

Collaborated with a team of 6 to develop CodeStrike, a 1 vs. 1 competitive coding game that makes practicing algorithms engaging and fun. Engineered the backend using **JavaScript** and **API integrations**, implemented real-time gameplay with **Socket.io**, and managed the design and development of the frontend. Served as a **full-stack developer**, seamlessly connecting frontend and backend components to deliver a robust and user-friendly experience.

Sudoku Solver with GUI (Java) August 2023 - October 2023

Developed a sophisticated Sudoku-solving program in Java, implementing complex **backtracking algorithms** and **optimizing efficiency** while demonstrating advanced problem-solving skills and algorithmic thinking.