

Aidan Essig

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Availability: May - December 2024

EDUCATION

Northeastern University

Boston, MA

Bachelor of Science in Computer Science, Minor in Mathematics

Sep. 2021 – May 2025

Relevant Courses: Algorithms and Data | Math of Data Models | Foundations of Cybersecurity |
Computer Systems | Object Oriented Design | Theory of Computation |
Differential Equations and Linear Algebra | Probability and Statistics

EXPERIENCE

MIT Lincoln Laboratory

Aug. 2023 – Dec. 2023

DevSecOps Co-Op

Lexington, MA

- Developed web based container management software for research use, providing a clear and intuitive interface
- Wrote and containerized code in Python, Java, and C++ for enhanced portability using Docker
- Utilized external libraries to customize PostgreSQL databases for relevant user requirements
- Hosted information sessions and demonstrations regarding Docker capabilities for various laboratory groups
- Documented key processes and systems for future reference in expanded production rollout
- Received a Secret DoD Clearance used for handling sensitive information and project work

Conair LLC

Jun. 2023 – Aug. 2023

Web Developer Intern

Stamford, CT

- Developed a centralized legal site which all Conair brands can use to streamline user experience
- Collaborated with the legal team to implement dynamic web forms using PHP, ensuring up-to-date legal content
- Utilized React for the creation of a dedicated product bundle promotion page, driving increased sales
- Designed responsive web layouts using HTML and CSS to optimize user experience across devices
- Integrated web components with Salesforce Commerce Cloud, ensuring seamless data flow

Northeastern University

Sep. 2021 – Dec. 2021

Computer Science Student Representative

London, UK

- Selected by peers to represent ~80 students studying computer science abroad in London
- Hosted office hours to consider program feedback and consulted students with questions
- Instituted an increase in office hours across all computer science classes and enhanced lab/lecture coordination

PROJECTS

Local Tide Web App | *Flask, React, Python, Javascript, HTML, CSS*

Dec 2023 – Present

- Developing a dynamic tide information web application with a planned user group of over 50 local boaters
- Utilizing React for the frontend and Flask for the backend, achieving seamless integration
- Implementing RESTful APIs in Flask to fetch, process, and serve real-time tide, weather, and area vessel data
- Designing an intuitive and user friendly interface, ensuring seamless viewing and interactions across devices

NFL Weather Betting Strategy | *Python, Pandas, NumPy, Scikit-learn, Jupyter*

Sep 2023 – Dec 2023

- Developed a Python-based predictive analysis tool in Jupyter Notebook to find NFL score correlations
- Manipulated data with Pandas and NumPy to better organize results and betting predictions
- Integrated advanced predictive models using Scikit-learn and Tensorflow to anticipate outcomes
- Discovered various strategies with leading predictions generating 3% edge over sportsbooks odds

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS

Frameworks: React, Node.js, Flask, JUnit, MongoDB, MySQL

Developer Tools: Git, Docker, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, Jupyter Notebook

Libraries: Pandas, NumPy, Matplotlib, Scikit-learn