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EDUCATION

Boston, MA **Northeastern University**

Sept. 2019 – Present

- Candidate for a Bachelor of Science degree in Computer Science, Minor in Physics (2024)
- Honors: Dean's List GPA 3.6/4.0
- · Relevant Coursework: Object Oriented Design, Database Design, Web Development, Theory of Computation, Algorithms and Data, Discrete Structures, Mathematics of Data Models
- · Activities: NUHacks, HC Programming Challenges, Disrupt: Fintech, Campaign Canvassing

EMPLOYMENT

Software Engineer, Co-op

FacilityConneX

June 2021 - Dec. 2021

- Upgraded C# analytics to advanced pandas-based Python framework resulting in a 40% reduction in codebase size while also adding additional alerting and calculated detailed results.
- Built out dev tools to automate the production of XML files, YAML files, and LaTeX customer documentation based on analytics' Historian database tags and DataFrame columns.
- Deployed analytics to AWS lambdas with Pulumi and validated results against sanitized Apache Druid data.
- Developed algorithms with subject matter experts and translated them into commercially viable products.

Technical Consultant, Intern

Kearney

April 2020 - June 2020

- Consulted on IoT rollout for an international, multi-billion-dollar retail and eCommerce company.
- Researched software/technical architecture and performed market trend analysis.
- Prepared technical recommendations to aid in the progression of strategic architectural decisions.

PROJECTS

Exercise Logger

Summer 2021

- Full stack MERN web application to create and edit a log of exercises related to unique users.
- Utilizes NodeJS backend with Express to route to and allow CRUD interactions with a MongoDB Atlas cluster.
- Displayed user creation and exercise addition/exercising using React components with Bootstrapped JSX templates – interacts with the backend using **Axios** HTTP requests.

Depop Summary

Spring 2021

- Python Flask based web application to create a summary of a given user's Depop products for sale.
- Leverages Selenium and Beautiful Soup to scrape data based on a given username and outputs a formatted summary webpage using **PostgreSQL** to store, and HTML Flask templates to display.
- Designed using HTML/CSS and Bootstrap frontend, deployed remotely on Heroku.

Number Recognition

Spring 2020

- Initially a Racket script that measured and compared the Euclidian distance between given handwritten digits and a set of training data to return the closest match.
- Converted to a Python program using the MNIST database to learn and Matplotlib to visualize.
- Two approaches implemented Simple approach with a trained Scikit-Learn Neural Network, and a Gradient/ Backpropagation approach using NumPy to manually train a small network and predict results.

TECHNICAL SKILLS

- Languages: Java, Python, SQL, HTML/CSS/JavaScript, PHP
- Frameworks & Tools: NodeJS, ReactJS, ExpressJS, AWS, Pulumi, MongoDB, PostgreSQL, MySQL, Maven, JUnit, Spring Boot, Heroku, Bootstrap, Flask, Selenium, PyEnv, pandas, NumPy, SciPy, SciKit, Jira, Git, Linux/WSL