GitHub: /careyn
LinkedIn: /nathanjcarey

NATHAN CAREY
careyn.github.io

(252) 412-1197
carey.n@northeastern.edu

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, Networks and Distributed Systems
- Activities: NUHacks, HC Programming Challenges, Disrupt: Fintech, Campaign Canvassing

EMPLOYMENT

Software Engineer, Intern	FacilityConneX	June 2021 – Present

- Overhauled C# analytics with upgrades to an advanced pandas-based Python framework, resulting in a 40% reduction in codebase size while also adding additional alerting and custom error results.
- Deployed new analytics to AWS lambdas and validated results against sanitized Apache Druid data.
- Built out dev tools to automate the production of XML files, YAML files, and LaTeX customer documentation based on analytic config files, exponentially increasing the speed of supporting file production.
- Established REST APIs that leveraged Redis to allow customers to import analytic configurations from one deployment to another, as well as import visualization templates across equipment types.
- Designed front-end Angular components for import and export functionality using Bootstrap and AG Grid.
- Developed algorithms with subject matter experts and translated them into commercially viable products.

Software Consultant, Intern	Kearney	April 2020 – June 2020

- Consulted on the IoT rollout for an international, multi-billion-dollar retail and eCommerce company.
- Expedited market trend analysis with an automated Python web-scraper, increasing speed by 300%.
- Conceptualized mock UI interfaces for multiple upcoming mobile platforms using Figma.
- Researched software and system design in order to perform educational presentations for business team.
- Prepared strategic technical recommendations to aid in the progression of cloud platform decisions.

PROJECTS

Bug Tracker		Fall 2021

- Jira-esque full-stack web application to track progress on bugs and assign issues to users
- Built using the MEAN stack, leverages MongoDB to store records of users/issues, and builds components for each issue using Angular. Role attribute is used to set the scope of issue CRUD abilities for each user.

Depop Summary		Spring 2021

- Python Flask based web application to build dynamic summaries of Depop sellers' products.
- Leverages Selenium and Beautiful Soup to scrape stock based on a given username, and outputs a summary webpage built using bootstrapped Flask templates and MySQL for displaying and storing relevant data.

Music Critique		Fall 2020

- Created a platform to allow artists and critics to interact, submit playlists, and leave critiques.
- Java application interacted with a local MySQL database through JDBC to control user login details, manage CRUD privileges for each user, and dynamically update database of songs as users submit new content.

COMPUTER KNOWLEDGE

- Languages: Java, Python, JavaScript, TypeScript, HTML/CSS, SQL, PHP
- Frameworks & Tools: NodeJS, AngularJS, ExpressJS, ReactJS, Bootstrap, Flask, MongoDB, MySQL, JDBC, Redis, pandas, NumPy, Selenium, Kubernetes, Okteto, PyEnv, Maven, AWS Lambda, Jira, Git/GitHub, Linux/WSL

References available upon request