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NATHAN CAREY

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EDUCATION

Boston, MA	Northeastern University	Sept. 2019 – Present
<i>Candidate for a Bachelor of Science degree in Computer Science, Minor in Physics (2023)</i>		
<ul style="list-style-type: none">• 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	NASA	Jan. 2022 – Present
<ul style="list-style-type: none">• Researched Key Performance Indicators to help develop a launch success decision tool.• Aided in building a risk analysis framework in Python that flags potential failures before a launch is made.• Aggregated and upgraded existing Fortran scripts into a single Python program to determine material stress levels during the ascent phase of balloon launches based on an automatically generated JSON spec file.• Performed Monte-Carlo simulations to highlight possible trajectories and areas of impact post-termination.• Redesigned the existing office website to facilitate seamless content updates.		
Software Engineer Intern	FacilityConneX	June 2021 – Jan. 2022
<ul style="list-style-type: none">• 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.• 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.		
Software Consultant Intern	Kearney	April 2020 – June 2020
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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.	

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