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**NATHAN CAREY**  
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## EDUCATION

Boston, MA	Northeastern University	Sept. 2019 – Present
<ul style="list-style-type: none"><li>• <i>Candidate for a Bachelor of Science degree in Computer Science, Minor in Physics (2024)</i></li><li>• Honors: Dean's List – GPA 3.6/4.0</li><li>• Relevant Coursework: Object Oriented Design, Database Design, Web Development, Theory of Computation, Algorithms and Data, Discrete Structures, Mathematics of Data Models</li><li>• Activities: NUHacks, HC Programming Challenges, Disrupt: Fintech, Campaign Canvassing</li></ul>		

## EMPLOYMENT

Software Engineer, Intern	FacilityConneX	June 2021 – Present
<ul style="list-style-type: none"><li>• Assisted in the build-out of an analytics library on next generation Python based framework.</li><li>• Worked alongside software developers and subject matter experts to translate algorithms into commercially viable products and services.</li><li>• Worked in technical teams for development, deployment, and application of applied, predictive, and prescriptive analytics.</li></ul>		

Technical Consultant, Trainee	Kearney	April 2020 – June 2020
<ul style="list-style-type: none"><li>• Consulted on IoT rollout for an international, multi-billion-dollar retail and eCommerce company.</li><li>• Researched software/technical architecture and performed market trend analysis.</li><li>• Prepared technical recommendations to aid in the progression of strategic architectural decisions.</li></ul>		

## PROJECTS

Music Critique	Fall 2020
<ul style="list-style-type: none"><li>• Created a platform to allow artists and critics to interact, submit playlists, and leave critiques.</li><li>• Maintained an <b>SQL</b> database to control user login details, manage <b>CRUD</b> privileges for each user.</li><li>• Used <b>JPA</b>, <b>JDBC</b>, and <b>ORM</b> to interact with the <b>Java</b> application.</li></ul>	

Easy Animator	Fall 2020
<ul style="list-style-type: none"><li>• Interactive animation editor that can read text files and convert to keyframe animations.</li><li>• Supports rotations, size and color changes, and transformations of various enumerated shape classes – can display textual representations, <b>Java Swing</b> animations, and <b>SVG</b> animations.</li><li>• Made with <b>Java</b> using <b>MVC</b> design pattern with specific attention to <b>JUnit</b> testing.</li></ul>	

Number Recognition	Spring 2020
<ul style="list-style-type: none"><li>• Initially a <b>Racket</b> based (<b>Functional Programming</b>) application that measured and compared the Euclidian distance between given handwritten digits and a set of training data to return the closest match.</li><li>• Converted to a <b>Python</b> application using the MNIST database to learn and <b>Matplotlib</b> to visualize.</li><li>• Two approaches implemented – Simple approach with a trained <b>Scikit-Learn</b> Neural Network, and a Gradient/Backpropagation approach using <b>NumPy</b> to manually train a small network and predict results.</li></ul>	

## COMPUTER KNOWLEDGE

<ul style="list-style-type: none"><li>• Languages: Java, Python, HTML/CSS, JavaScript, SQL, PHP, Scheme</li><li>• Software/Tools: Git, JetBrains IDEs, Eclipse, MySQL, Spring, Maven, Heroku, Node.js, MongoDB, Mongoose</li><li>• Systems: Windows 10, Linux/Unix, macOS</li></ul>	
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References available upon request