

Jonathan M. Martinez

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Detailed oriented Engineer with analytical and problem-solving skills seeking Software Engineer opportunity to provide viable solutions by leveraging educational knowledge and technical experience.

TECHNICAL COMPETENCY

Knowledge: Core Java, JavaScript, React JS, CSS, HTML, Git, NPM
Familiar: C++, Node JS, PostgreSQL, MongoDB (NoSQL), Heroku
IDE: Visual Studio Code, IntelliJ, Sublime
OS: Windows, Linux

Applications: Microsoft Office, MATLAB
PC Network: TCP/IP, Security
Languages: English, Spanish

CERTIFICATIONS

Amazon Web Services - AWS Certified Cloud Practitioner, Verification# 0CZY6HN1H2EQ1F54
CompTIA Certified Security + CE, Verification # 2SPQMYXHSDVQQ4WK
Fundamental of Engineering Certificate, NCEES FE

EDUCATION

Bachelor of Engineering in Electrical Engineering , The City College of New York	3.8 GPA
Associate of Science in Engineering Science , Bronx Community College	3.9 GPA

EXPERIENCE

Software Development Projects	June 2020-Present
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Java-Database GitHub link: <https://github.com/jmartin-code/Java-Database>

- Integrated Java with SQL CLI commands to queries and update a music data content in SQLite database.
- Implemented Java Prepare Statement as preventive security to mitigate SQL injection attacks.

Task Tracker GitHub link: <https://github.com/jmartin-code/DrumKit>

- Created a Task Keeper web application based on React JS, Material-UI, CSS style and HTML.
- This app features a modern looking UI with the functionality to add tasks and delete tasks by subject.
- The web app can be easily integrated with NoSQL database such as MongoDB and NodeJS for back-end process.

Drum Kit GitHub link: <https://github.com/jmartin-code/Task-Keeper>

- Created a Drum Kit web app based on vanilla JavaScript, CSS style and HTML.
- The app plays the sound of each drum kit instrument when their icon is clicked, or respective keyboard key is pressed.

Electrical Engineer	2018-Present
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MTA Long Island Railroad

New York

- Support the overall design cycle for new railcar system software and technology, from development to implementation.
- Review software design specifications to verify compliance and provide recommendations for improvement.
- Investigate system software malfunction and device toolsets to determine root cause of failure.
- Familiar with Bash and PowerShell scripts to maintain and automate tasks for microprocessor-based systems.

Jr. Electrical Engineer	2016 - 2018
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MTA Long Island Railroad

New York

- Developed and modified software codes for programmable logic controller (PLC) to automate electrical system.
- Supported inspection of microprocessor-based systems to assist developing written technical evaluation.
- Created technical documents such as test procedures, maintenance instructions and operating procedures.

Engineering Aide – Quality Assurance	2015 - 2016
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Con Edison

New York

- Maintained an action tracking database to keep track of company compliance with State and Federal regulations.
- Configured a database to organize and keep track of all QA documents in support of data management.

Research Engineer	2014-2015
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CCNY Integrated Photonics Lab, Engineering

New York

- Designed and built an experimental line-focused ultrasound transducer for new 3D imaging approach.
- Utilized LabVIEW to capture multiple 2D optical images and MATLAB to render 3D views of the object under test.
- Published "Optical Ultrasound Imaging Using a Lined-Scanned Transducer" on the Microwave and Optical Technology letter. Vol. 59, 770-773 in collaboration with mentor and peers.