

# Jonathan M. Martinez

[jmmartinez331@gmail.com](mailto:jmmartinez331@gmail.com) || <https://my-profile-web-page.herokuapp.com/> || (646) 702-4703 || New York

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

**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 for 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 by subject, and delete tasks
- 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  
**MTA Long Island Railroad** New York

- Collaborate with IT team and vendors to support the overall design cycle for new railcar system software and hardware.
- Review software design specification proposed by contractors to verify their compliance with company requirements.
- Investigate software and hardware system malfunction to determine root cause of failure.
- Familiar with Bash and PowerShell scripts to automate tasks for microprocessor-based systems.

**Jr. Electrical Engineer** 2016 - 2018  
**MTA Long Island Railroad** New York

- Developed and modified program 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  
**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  
**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.