

# Roberto Noel

SOFTWARE ENGINEER

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## Education

### New York University Shanghai

B.S. COMPUTER SCIENCE & FINANCE DOUBLE MAJOR

Shanghai, CN

August 2015 - December 2019

- **NYU Stern School of Business**, NYC, New York — 2017 - 2018 Study Abroad
- Cumulative GPA: 3.5/4.0
- Computer Science Major GPA: 3.64/4.0

## Skills

### Frameworks and Tools

React VueJS NodeJS Java Spring Fast API Web3.js Hardhat DynamoDB Git Airflow

### Languages

Python Java JavaScript TypeScript Solidity Rust C SQL HTML / CSS L<sup>A</sup>T<sub>E</sub>X

### Competencies

AWS Solutions Architect Software Engineering Machine Learning Quantitative Analysis Financial Modeling

- Trilingual in English, Spanish and Mandarin Chinese
- International work experience – Peru - China - USA - Paraguay
- Led a team of over 150 writers, covering private equity and venture capital deals across Asia

## Work Experience

### Capital One

SENIOR ASSOCIATE SOFTWARE ENGINEER

Richmond, VA

Aug 2020 – Present

- Using Java Spring / VueJS to develop a web app for third-party vendors to design and deliver custom statements to customers.
- Creating a vulnerabilities dashboard using React / NodeJS to track and provide visibility into issues across all Card & Fulfillment teams.
- Writing unit and feature tests for front / back end repositories using JUnit, Karate, Cypress and Vue Test Utils.
- Managing Kubernetes clusters, allowing other teams to easily deploy code without having to oversee infrastructure.
- Making custom Istio adapters and workflows to enable network automation across infrastructure components.
- Writing Python lambdas in AWS for monitoring LDAP accounts and automating image deployment to Artifactory.

### Usic (usic.io)

LEAD SOFTWARE ENGINEER

Los Angeles, CA

Feb 2021 – Jan 2022

- Used Python (FastAPI) / React to build out our core web platform, aiming to provide high-quality data to record labels and advertisers.
- Built responsive search using React/Redux for the front-end and FastAPI/Postgres for the back-end/database.
- Drove application-wide restructuring of AWS architecture for Beta launch, ensuring scalability and high-availability of critical systems.
- Set up CI/CD pipelines to automate the deployment of back-end and front-end applications to ECS using GitHub Actions.
- Wrote cron jobs using Airflow to periodically update our databases with artist and genre data from Spotify's Open API.

### Bank of America Merrill Lynch

SUMMER ANALYST - INTERNSHIP

Miami, FL

June 2018 – August 2018

- Provided re-balancing strategies, maximizing returns while cutting transaction costs by creating quantitative models using VBA.
- Achieved higher yields while lowering the risk and duration of our portfolios by optimizing the bond selection process.

## Projects

### Personal Collection & NFT Contract Work <naughtyneighbors.io>

FOUNDER / SMART CONTRACT ENGINEER

Miami, FL

October 2021 - Present

- Designing and developing mint websites for several projects (Solements, Kindred Spirits, Hoppy Bunny Syndicate, etc.)
- Developing several gas-efficient Solidity / Rust smart contracts across the Ethereum and Solana ecosystems.
- Managing artists, marketers and discord maintainers to further the growth of my personal project.

### Genetic Algorithm for ByteBeat Music

MACHINE LEARNING RESEARCHER

Shanghai, CN

October 2019

- Engineered a genetic machine learning algorithm to automate the discovery of music-generating expressions in C.
- Implemented the model by mutating binary expression trees and rating the resulting songs using a logistic regression to mimic human taste.