

Roberto Noel

SOFTWARE ENGINEER

230 NE 4th Street Apt 2707, Miami, FL, USA

☎ (703) 213-9136 | ✉ roberto.noel@nyu.edu | 🌐 www.robertonoel.com | 📺 /robertopablonoel | 📄 /in/robertonoel

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 MongoDB Git Airflow

Languages

Python Java JavaScript TypeScript Solidity Rust C SQL HTML CSS LaTeX

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, to generate coverage of Chinese market providing insight to international investors at Red Pulse.

Work Experience

Capital One

SENIOR ASSOCIATE SOFTWARE ENGINEER

Richmond, VA

Aug 2020 - Present

- Using Java Spring / VueJS to develop a simple web interface for third-party vendors to design and deliver custom statements to their customers.
- Creating a vulnerabilities dashboard using React / NodeJS to track and provide visibility into issues across all Card & Fulfillment teams.
- Increasing unit, feature, and ATDD test coverage of existing 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 linter adapters and workflows to enable network automation across infrastructure components.

Usic (usic.io)

LEAD SOFTWARE ENGINEER

Los Angeles, CA

Feb 2021 - Jan 2022

- Using Python (FastAPI) / React to build out our core web platform, aiming to provide high-quality data to record labels and advertisers.
- Building responsive search using React/Redux for the front-end and FastAPI/Postgres for the back-end/database.
- Driving application-wide restructuring of AWS architecture for Beta launch, ensuring scalability and high-availability of critical systems.
- Setting up CI/CD pipelines to automate the deployment of back-end and front-end applications to ECS using GitHub Actions.
- Creating 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

- Engineering a gas efficient smart contract in solidity for gene-based NFT generation (Naughty Neighbors - personal project)
- Designing and developing mint websites for several projects (Solements, Kindred Spirits, Hoppy Bunny Syndicate, etc.)
- Developing multiple Solidity / Rust smart contracts across the Ethereum and Solana ecosystems.
- Managing artists, marketers and discord maintainers to further the growth of Naughty Neighbors.

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.
- Learned how to use industry-leading machine learning packages such as PyTorch and Scikit-learn.