

Neha Nelson

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Education

Rutgers University - School of Engineering

May 2021

B.S. Electrical and Computer Engineering

- **Relevant Coursework:** Machine Learning*, Software Engineering, Computer Architecture, Operating Systems, Programming Methodology, Probability & Random Processes, Principles of Electrical Engineering, Digital Logic Design, Electronic Devices, Digital Electronics, Linear Systems and Signals *current coursework

Experience

The CoderSchool

Montgomery, NJ

Code Coach

Jun 2020 – Present

- Spearheaded and implemented curriculums for Python, Game Development and Minecraft Camps, while accommodating to ages ranged 6-16 years and various knowledge levels to stimulate enhanced learning via educationally challenging coursework
- Mentored 40+ students and conducted numerous workshops in **Java** and **Python** that boosted enrollment in private tutoring
- Instructed **Python**, **Java**, and basic coding logic through Scratch and Trinket.io, additionally drawing importance to soft skills, such as communication as a developer

AT&T Externship

Remote

Extern

May 2020 - July 2020

- Acquired business and technical acumen, alongside technical growth and professional development, by completing 80 hours of modules related to Machine Learning, Artificial Intelligence and data driven decision making
- Participated in workshops relating to Cable Routing basics as well as Phone & Ethernet Wiring, providing for a practical implementation to the foundations of Communication Engineering
- Completed entry-level training in HR, finance, advertising, media and technology, communication, and leadership

Projects

JP Morgan Chase SE Virtual Experience

- Interfaced with a stock price data feed with 1 year of samples and set up a system for analyzing the data using **Git** and **Python**.
- Used JP Morgan's **Perspective** data visualization software and **React** to enhance a client-side web application to display a graph, which automatically updates data received from the server and aggregates duplicate data
- Helped provide visualization for data by updating the UI/UX, critical to providing traders with tools to improve efficiency

Blockchain

- Implemented and self-learned about the foundations of Blockchain, building an interface in **Python** which accepts transactions and allows for the mining of new blocks
- Utilized the **Proof of Work** and **Consensus algorithm** to ensure new blocks can be created/mined and only valid data can enter the chain, providing reliability and security for the blockchain.
- Utilized Python **Flask** framework and **Postman** to manipulate the blockchain over the web using HTTP requests

SmartPark

- Collaborated with a team of 10 peers to design and implement a web application for an automated parking garage system using **JavaScript**, **React** and **Node.js**
- Lead UX/UI design development to enhance usability. Performed quality assurance by writing numerous use cases and test cases, as well as maintaining project documentation throughout the 10-week process
- Utilized **MongoDB** to store and interact with customer accounts, billing and reservation data to efficiently manage the garage

Extra-Curriculars

Society of Women Engineers (SWE)

New Brunswick, NJ

Active Member

Sept 2019 – Present

- Selected as one of 20 female engineers for a highly competitive SWE Industry Mentorship Program, demonstrating dedication for professional development through 1:1 meeting with an industry mentor
- Facilitate 1:1 mentorship for an underclassman engineer by providing guidance concerning careers and available resources within Rutgers University

Skills

Languages Java, Python, C++, JavaScript, MATLAB

Tools+Frameworks React, Flask, Node.JS, GitHub, Microsoft Suite (Excel, Powerpoint, Word)