Rehman (Ray) Arshad

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EDUCATION

The City College of New York (CCNY), City University of New York (CUNY) New York, NY
BS in Computer Science | Overall GPA: 3.2/4.0 Expected May 2021
Relevant coursework:
Discrete Math, Data Structures, Probability and Statistics for Computer Science, Algorithms, Software Design Lab, Programming Languages, Databases, Numerical Issues in Scientific Programming, Theoretical Computer Science, Operating Systems, Computer Graphics, Web Security, Software Engineering

SKILLS

Programming: C/C++, C#, Python, Java, HTML, CSS, JavaScript, React, Node, Express, PostgreSQL, Qt, OpenGL, MongoDB, R
Technologies: Git/GitHub, Slack, Trello, Burpsuite, Eclipse, Xcode,CLion, Intellij Idea, VSCode, Bash terminal, Docker, Vim, Sublime Text, Atom, Virtual Box, Unity, Blender, Sculptris, Microsoft Office
Operating Systems: Windows 7/10, Mac OS X, Linux, iOS, Android
Certifications: Codecademy's HTML5, CSS3, Responsive Design, Introduction to JavaScript, CUNY TechPrep Cohort 5, CodePath Cyber Security

RELEVANT EXPERIENCE

CUNY Research Foundation (Summer Internship) New York, NY
Undergraduate Assistant Researcher Jun 2020 – Present

- Worked in a team to research, plan, and implement software that would take readings from IoT medical devices
- Send the readings from the sensors to the device using bluetooth protocols and then from the device store the data to the cloud so that doctors could remotely monitor a patient's vitals.

NOAA Crest (National Oceanic & Atmospheric Administration) New York, NY
Undergraduate Assistant Researcher Oct 2019 – Present

- Learned how to run WRF-Hydro, a simulation program originally written in FORTRAN inside a docker container.
- Used ArcGIS to create geo domains to work with WRF-Hydro Simulation models
- Implemented shell scripts to create txt files that would automate downloads using wget in bash for FTP servers
- Used Linux and Python to automate gathering weather data, and finally graphed data using matplotlib for quarterly reports for the PuertoRico hurricane Maria analysis Project

SELECTED PROJECTS

QChat Social Media Application: March 2020 – Present

- Worked on a team to build, test, and deploy the application with a 24 hour deadline for the Hack Brooklyn hackathon
- Implemented the UI to be responsive on all screen sizes on the Front-end
- Implemented all CRUD methods and User Authentication on the backend
- Web scraped valid information and misinformation on COVID-19 all across the web to feed the Machine Learning model that validates all posts.
- Collaborated with the team to add a graph to display open source new york times covid-19 data
- Ported the AWS hosted web app as a Porgressive Web Application for Android and iOS
- Presented the idea to judges in HackBrooklyn and during the CUNY Tech Prep Graduation Demo Night

C++ Particle Fire Explosion: Aug 2018 – Nov 2018

- Created a GUI particle explosion program in C++, using the SDL2 library.
- Learned how to deal with manual memory management in C++

DeathMD: Nov 2019 -- Dec 2019

- Implemented the front-end in React, and collaborated in a team.
- Engineered a web and mobile app that predicts a patient's medical condition using Machine Learning.
- Ported the Heroku deployed web app to Android, and iOS.

ASSOCIATIONS & INTERESTS

Association for Computing and Machinery (ACM), Sep 2016 – Present
Interests: Anime, Manga, EDM Music, Synthwave, Video Game Development and Motion Capture, Hackathons, Computers Hardware, Linux Distributions, 3D tools, Graphics Rendering.