

Neil Barot

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EDUCATION

University of Texas at Dallas, Richardson Tx — *Bachelors in Software Engineering* | August 2020 - May 2024

SKILLS

Languages: Java, Python, C++, C, JavaScript, TypeScript, HTML, CSS, SQL

Frameworks/Libraries: React, Angular

Tools/Technologies: Node.js, Git, GitHub, AWS, ServiceNow, Docker

Others: RESTful APIs, Responsive Web Design

WORK EXPERIENCE

Infosys — *Computer Science Intern*

June 2023 - August 2023

- Employed ServiceNow to create a full-stack application that has the potential to save hundreds of hours by automating the document verification and processing workflow
- Surveyed multiple different developers and employees to gather the requirements needed in order to design the application
- Utilized Document Intelligence in order to process and extract values from documents

Fellows Consulting Group — *Software Engineer*

August 2023 - December 2023

- Created a simple antivirus system capable of detecting virus traces consisting of unique hex strings within .exe and .dll files, accompanied by the design and implementation of a user-friendly GUI.
- Developed a novel hybrid lifecycle model merging principles of the waterfall and MVP lifecycles, emphasizing open-source software utilization and integrating iterative MVP development within the sequential structure of the waterfall model.
- Conducted comprehensive documentation for both projects, ensuring detailed records for future teams to build upon.

RELEVANT PROJECTS

Exercise Form Analytics

- Implemented a human pose detection model from mediapipe to analyze and rectify user form in real time while performing various compound exercises.
- Calculated the positions of key landmarks on the user's body and employed custom geometric equations to detect unnatural or potentially stressful joint angles.

Application Layer Protocol

- Simulated interactions between a Controller, Renderer, and Client across three separate mininet networks using sockets in Python
- Deployed the application to allow the user to stream three different file types from the server seamlessly while also supporting pausing, resuming, and restarting

Makerspace Management Tool

- Utilized SQL, React, and Node.js to create a management tool for a maker space that allows hundreds of users to schedule appointments and manage records for various machines seamlessly
- Displayed various insights such as highest filament cost and cheapest suppliers, allowing employees to save hundreds of dollars on filament expenses