RAJ TRIVEDI

triudrav@udel.edu|302-766-5840|https://www.linkedin.com/in/raj-trivedi/ |https://github.com/bluehenraj

EDUCATION

University of Delaware Newark, Delaware
College of Engineering August 2018 - May 2022
Bachelor of Science in Computer Science
GPA: 3.539
Relevant Coursework: Data Structures, Introduction To Algorithms, Operating Systems, Computer Networks I, Database Systems, Introduction To Software Engineering, Parallel Computing, Automata Theory, Introduction To Computer Science II, Computer Architecture, Introduction To Systems Programming, Discrete Mathematics I, Machine Language and Assembly Organization, Elementary Linear Algebra

WORK EXPERIENCE

J.P. Morgan Chase & Co. Wilmington, Delaware
Software Engineer Intern June 2021 - August 2021

- Developed a **process flow** for a virtual assistant application which could give **Knowledge Base** authors a direct access(providing one point of contact for information) to all the articles of a **Knowledge Base Portal**
- **Technologies Utilized** : Spring Boot, REST APIs, and IPSoft
- Collaborated with our team to implement an **Email Automation Project** which could help **Knowledge Base** authors to recertify their articles directly from an email and thus replacing manual work of doing recertification through Microsoft Excel
- **Technologies Utilized** : Spring Boot, REST APIs, ReactJS, and Oracle SQL

TECHNICAL SKILLS

- **Languages**: Java, C++, Python, C, Assembly, HTML, CSS, PL/SQL
- **Technologies** : Spring Boot, NodeJS, ReactJS
- **Databases**: Oracle SQL, Neo4j
- **Operating Systems**: Windows
- **Software**: IntelliJ IDEA, VS Code, Eclipse, Thonny, Microsoft Office, PuTTY, SQL Developer, Notepad++

HONORS AND AWARDS

Dean's List : Jan 2019, Jun 2019, Dec 2020, Jun 2021

COURSE PROJECTS

Garden Design Application

- Application where end-user can create his/her own garden with some cool features implemented
- Features include but not limited to: drag-n-drop event for plants, serializing/deserializing for saving/loading garden, customizable background, and different garden menus for end-user and application interaction
- Application utilizes **Model-View-Controller(MVC) design pattern** and **Object-Oriented-Programming(OOP) concepts** in **Java**

User-Level Thread Library

- This project involved designing and implementing a user-level thread library which supports **thread creation**, **thread scheduling** via context-switching, **thread synchronization** using Semaphores, **and Inter-Thread Communication(ITC) mechanism** using Message Passing and Mailbox functionality
- This project utilizes **high level C language** to achieve all of the given functionality

User-Level Unix Shell Implementation

- This project involved learning how a Unix shell works, writing a simple shell, creating processes, handling signals, using Unix system calls and C library function calls, and becoming a better programmer in general
- The user-level shell implements **built-in commands** like "cd", "pwd", "which", "where", "kill", "watchuser" etc., **external commands** like "ls", "grep", "vim", "rm" etc. using exec() system call of Unix, **Inter-Process Communication(IPC) mechanism** using Piping functionality, **and File Redirection mechanism**
- This project utilizes **high level C language** for implementation