Vinesh Benny

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SKILLS

Languages: Python, Java, JavaScript, C, SQL, HTML, CSS
Frameworks/Databases: ReactJS, Node.js, Express.js, MongoDB, Neo4j, PostgreSQL, MySQL, Firebase
Tools/Technologies: AWS, Docker, Bash, Mars, Dagger, Maven, Postman, Git, Jira, Linux/Unix, JUnit, HUnit, LaTeX, OpenGrok

EDUCATION

University of Toronto - Honors Bachelor of Science   Sep. 2020 – Present
Co-op Specialist in Computer Science — *Software Engineering Stream*   Toronto, ON
- **Awards:** University of Toronto Scholar, Fall 2021 Dean's List

EXPERIENCE

Software Developer   Sep 2022 – Dec 2022
BlackBerry QNX — *C, Jira, Salesforce, OpenGrok, VMWare*   Mississauga, Ontario
- Debugged the kernel of the **POSIX-compliant QNX real-time operating system**, used by Automakers such as BMW, Ford, Mercedes-Benz, as well as in medical devices, robotics and industrial embedded systems industries.
- Worked in the integration team in a customer-facing role where the major task is debugging the kernel with focus on **thread communication, synchronization,** and **process scheduling**.

Teaching Assistant   Jan. 2022 – Present
University of Toronto — *CSCB09*   Toronto, ON
- Conducted weekly tutorial sessions with over **40** students going over concepts in **software engineering**, **Systems Programming** in **C** and **bash/zsh** while also assisting students with labs/assignments.
- Created solutions for past finals from 2015 – 2022 as a resource used by *100+* students in the course.

PROJECTS

Scholarly — *TypeScript, ReactJS, PeerJS, SQLite, Git*   Jan 2023. – Apr. 2023
- Collabarated with peers to build a full stack web platform that allows students to have video tutoring sessions using **PeerJS**.
- Authenticated users using **Auth0**, **Twilio** for 2-Factor Authentication, and **SendGrid** for email confirmations.

Discord Bot — *Python, AWS, SQLite, Git*   Jun. 2021 – Present
- Collaborated with a peer to build an interactive multi-purpose **Discord bot** using **discord.py** module in **python**, storing 50% of database on **SQLite** and the other 50% with **AWS**.
- Experienced working as part of a team as well as utilizing **APIs** and interpreting documentation.
- Deployed the bot in a public university discord server with over **500** users and got consistent interaction.
- Setup and hosted the bot on a home server using task scheduling, **batch scripting** and collaboration using **git**.

Pawsup — *MongoDB, Express.js, ReactJS, Node.js, Git*   Sep. 2021 – Dec. 2021
- Engineered the backend using **Express.js** and **Node.js** following a **Model-View-Controller (MVC)** design making use of the **RESTful** API architecture to send and receive user data.
- Designed a modern UI mockup using **Figma** and implemented the frontend using **React Native** styled components.
- Stored and securely accessed user data using a non-relational database structure in **MongoDB**.
- Followed the **Agile Development** methodology with weekly deliverables.
- Used **Jira** for project tracking and **Git** for version control with advanced **gitflow** use.
- Facilitated line of communication with end users and other team members to incorporate feedback into deliverables.

Medical Clinic App — *Java, Firebase, Android Studio, Mockito, Git*   May. 2021 – Aug. 2021
- Designed a **full stack android application** to create medical app for doctors and patients to keep track of appointments and medical history.
- Devised various backend functionality using **SOLID** design patterns in **Java** adhering to the **MVP** architecture.
- Implemented the frontend using **Android Studio** and thoroughly tested the application using **Mockito**.
- Deployed a real-time database on **Firebase** to adeptly store user data.