Vinesh Benny

➤ vinesh.benny@mail.utoronto.ca

? GitHub

in LinkedIn

SKILLS

Languages: Python, Java, JavaScript/TypeScript, C, SQL, HTML, CSS, Haskell, mongosh, bash/zsh, Scheme Frameworks/Databases: Next.js, Angular, Node.js, Express.js, MongoDB, Neo4j, PostgreSQL, MySQL, Firebase Tools/Technologies: AWS, Docker, Bash, Mars, Dagger, Maven, Postman, Git, Jira, Linux/Unix, JUnit, OpenGrok

EDUCATION

University of Toronto - Honors Bachelor of Science

Sep. 2020 – Apr. 2024

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

Mississauga, Ontario

BlackBerry QNX — C, Jira, Salesforce, OpenGrok, VMWare

- 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 was debugging the kernel with focus on thread communication, synchronization, and process scheduling.
- Coordinated efforts with cross-functional teams, including hardware engineers and quality assurance professionals, to ensure the successful delivery of high-quality software products.
- Collaborated with other developers to develop and implement software patches and fixes to resolve 15+ issues found during the debugging process.
- Facilitated line of communication with end users and other team members to incorporate feedback into deliverables.

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, Next.js/ReactJS, PeerJS, PostgreSQL, Docker, Lightsail Jan. 2023 – Apr. 2023

- Developed a peer-to-peer video chat web application in NextJS (React) for live online tutoring..
- Implemented video chat functionality using PeerJS, and utlized numerous backend/frontend API's such as **Stripe**, **FullCalendar**, **SendGrid** for additional features, paired with a robust backend architecture using **Node.js/TypeScript** and **PostgreSQL** to ensure resilience and scalability.

Discord Bot — Python, AWS, MongoDB, SQLite, Git, PaperTrail, OpenAI

Jun. 2021 – Present

- Collaborated with a peer to build an interactive multi-purpose autosharding Discord bot using the discord.py
 module.
- Implemented cloud logging and remote server control to facilitate remote development.
- Built backend from scratch to store images on AWS, with associated metadata on MongoDB, for advanced tagging and analytics.
- 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.