Mehakpreet Kambo

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EDUCATION

University of Washington — Sep. 2020 – Dec 2023
Bachelor of Science in Computer Science and Software Engineering — *GPA: 3.7*
- Coursework: Data Structures and Algorithms, Operating Systems, Database Systems, Distributed Systems

EXPERIENCE

Undergraduate Research Assistant — Bothell, WA
University of Washington — *Oct 2023 – Dec 2023*
- Spearheading UWTechPrep, an innovative platform aimed at preparing software engineering students for technical interviews through curated practice plans and stress-free interview practice sessions with industry mentors

Software Engineer Intern — Florida (Remote)
LeNgineer — *Jun 2022 – Sep 2022*
- Designed and implemented a **RESTful API** using **Flask** and **PostgreSQL** to store and manage data from user-generated content resulting in 30% reduced data retrieval times
- Developed a web interface using **HTML**, **Express.js**, and **Node.js**, enabling seamless interaction with the APIs for testing and validation
- Collaborated with the team to design a scalable and efficient **database schema** that reduced query response times by 25% improving the overall performance of the system
- Documented API endpoints details, request/response formats, error handling, authentication/authorization mechanisms resulting in improved developer understanding and streamlined integration processes

PROJECTS

QuoteQuest | *ReactJS, Flask, PostgreSQL*
- Developed a full-stack web app using React.JS and Flask, that allows users to explore and discover a vast collection of inspirational quotes
- Engineered a RESTful API on the backend, effectively managing data retrieval and submission, optimizing server performance, and ensuring seamless communication between the front-end and the database
- Orchestrated user-driven features such as browsing quotes by author names and categories, contributing favorite quotes, and suggesting updates to existing quotes

Spotify2AppleMusic | *HTML, CSS, JavaScript, Node.JS*
- Built an intuitive user interface that streamlined the selection and transfer process, making it easier for users to quickly and efficiently migrate playlists
- Implemented OAuth 2.0 authentication with Spotify and Apple Music APIs, enhancing security through **JWTs (JSON Web Tokens)** for user authentication/authorization during playlist transfer
- Leveraged Apple Music API to generate authentication tokens via private keys, enhancing security measures and enabling users to confidently access and transfer playlists

Barbershop WebApp | *HTML, CSS, JavaScript, NodeJS, PostgreSQL*
- Developed a fully functional Barbershop Web Application utilizing HTML, CSS, and JavaScript for the frontend and Node.JS with PostgreSQL for the backend
- Engineered a responsive and intuitive booking system, allowing clients to schedule appointments seamlessly while ensuring real-time availability updates
- Used Handlebars to dynamically generate and render HTML content, enhancing code organization and facilitating the seamless integration of data from the backend to the frontend

Dad-Joke-Teller VS Code Extension | *JavaScript*
- Developed and launched a VS Code extension that provides users with on-demand random dad jokes, enhancing their coding experience through moments of humor and relaxation with 20+ installations

TECHNICAL SKILLS

Languages: Java, Python, C, C++, JavaScript, HTML, CSS, SQL, NoSQL
Technologies: Django, Flask, ReactJS, NodeJS, ExpressJS, MongoDB, PostgreSQL
Developer Tools: Git, AWS, Azure, Shell