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 – Present*

- Rewrote the UWTechPrep application, transitioning from a Flask framework to a full-stack architecture with a **React frontend**, **Flask REST API**, and **MySQL database**, thereby improving scalability, performance, and overall user experience
- Actively participated in **code review sessions** with teammates, leading to a **40% reduction** in **code errors** and significantly improving overall code quality
- Utilized **Azure DevOps** (ADO) for comprehensive project management, streamlining workflow, task tracking, and collaboration, ensuring efficient progress and timely delivery of the UWTechPrep platform enhancements

Software Engineer Intern — Florida (Remote)
LeNgineer — *Jun 2022 – Sep 2022*

- Designed and implemented a REST API using Flask and **PostgreSQL** to store and manage data from user-generated content resulting in 30% reduced data retrieval times
- 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 **REST 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

AWS Backup/Restore Program | *AWS S3, Java* |

- Programmed a command line program in Java for AWS CLI users to either backup a file directory to an **AWS S3 bucket** or restore a file directory to your machine from an S3 Bucket
- Optimized program by implementing **recursion** to traverse file directories and preserve directory structure in S3 bucket and only backing up files that have been locally modified since last backup

Map Notes | *Django, PostgreSQL, Azure* |

- Built a Django application that provides a map view of notes saved around the world by all the users
- Successfully implemented **Google authentication** using OAuth2 with the **GMAIL API**, enhancing user access efficiency
- Utilized **Azure App Service** for deploying the web app, ensuring reliable and scalable cloud hosting

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 **40+ installations**

TECHNICAL SKILLS

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