

Mehakpreet Kambo

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EDUCATION

University of Washington

Bachelor of Science in Computer Science and Software Engineering

Sep 2020 – Dec 2023

GPA: 3.7

EXPERIENCE

Undergraduate Research Assistant

University of Washington

Bothell, WA

Oct 2023 – Dec 2023

- 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

LeNgineer

Florida (Remote)

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