

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 full Flask framework to a modern architecture with a **React frontend**, **Flask API**, and **MySQL database**, thereby improving scalability, performance, and overall user experience
- 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 **RESTful 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 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

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

Spotify2AppleMusic | *ReactJS, 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

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++, JavaScript, HTML, CSS, SQL, NoSQL

Technologies: Django, Flask, ReactJS, NodeJS, ExpressJS, MongoDB, MySQL, PostgreSQL

Developer Tools: Git, AWS, Azure, Shell