KUNALPREET MATHARU

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EXPERIENCE

Software Engineer Intern

May 2023 – Aug 2023

TD Bank

Toronto, ON

- Developed **RESTful APIs** with **Java Spring Boot** for a booking app, improving efficiency by **40%** through optimized slot management and authentication.
- Engineered functional, end-to-end, and unit test cases using **JUnit** and **SpringBootTest**, achieving **95%+** coverage and integrating into Jenkins/Bitbucket CI/CD pipelines.

Co-op Software Engineer, AI Platform

Sept 2022 – Apr 2023

Kinaxis

Toronto, ON

- Streamlined data transfers from **DBFS** to **GCP** and **Azure** Storage using **Scala** and **Spark**, resulting in a **117%** improvement in data retrieval rate.
- Automated deployment and testing on **Azure** using **Helm**, **Kubernetes**, and **Docker**, improving efficiency by **48%**.
- Performed **ETL** on thousands of data points for quantitative analysis and ML model training, using **Apache Hive**, **SQL**, and **Python**.
- Worked with senior developers to redesign authentication with **Auth0**, enhancing security and improving efficiency by **54%**.
- Developed React-based web features, increasing user data analysis efficiency on the AI platform by 15%.

Software Engineer Intern

May 2022 - Aug 2022

TD Bank

Toronto, ON

- Developed over **100** automated testing scripts for web applications using JMeter and Postman.
- Performed data analytics on testing results, collaborating with developers to decrease average loadtime by 10%.
- Built an automated daily testing framework with Selenium, reducing test time by 65% and improving accuracy by 15%.

EDUCATION

McMaster University

Sept 2019 - Nov 2024

B.A.Sc. in Computer Science with co-op

Hamilton, ON

Relevant Coursework: Algorithms and Data Structures, Software Development, Operating Systems, Computer Networks, Software Testing, Web development, Compilers

PROJECTS

FoodBanks | JavaScript, ReactJS, NodeJS, MongoDB, ExpressJS, Auth0, Google Cloud API

Mar 2024

- Developed a full-stack web application to connect organizations involved in food rescue.
- Implemented user identity verification and access management using Autho.
- Designed and developed path routing for pick-up and delivery operations using the Google Routes API.

GameDB | JavaScript, CSS, EJS, NodeJS, MongoDB, ExpressJS, Git, Bootstrap – kunalpreet/GameDB

Jan 2023

- Created a full-stack web application for sharing and discussing video games.
- Provided user authentication and authorization using PassportJS
- Utilized Mapbox and Cloudinary APIs to display map of sellers' location and upload images

TECHNICAL SKILLS

Languages: Java, Scala, Python, Go, C/C++, MySQL, Haskell

Web Development: JavaScript, HTML5, CSS, TypeScript, React, NodeJS, Express, Django

Tools: MongoDB, FastAPI, Google Cloud API, Git, Docker, Kubernetes, Databricks, Azure, Jenkins, BitBucket