Mustafa Ali

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EDUCATION

University of Ottawa   Ottawa, ON
BASc in Software Engineering   *2018 – 2022*

EXPERIENCE

Associate Software Engineer   Jan. 2023 – Present
Veeva Systems   *Toronto, ON*
- Implementing, designing and maintaining a document and object based content management system by optimizing existing and new ActiveMQ powered async processes, incorporating remote S3 storage capabilities and writing dynamic business logic in modular Java Spring based REST APIs
- Leading efforts with project managers to add customer facing wizards using SQL, React and Solr for clients to perform bulk updates to data with major contributions to UI and API architecture design
- Involved in various proof of concepts of which many end up in use by customers including a Java API to auto format labels based on a custom configuration expression language

Software Engineer Intern   May. 2022 – Aug. 2022
Meta   *Seattle, WA*
- Applied prefetching methodologies to Graphql queries to improve Facebook Marketplace load times with experimentation indicating 70% gains
- Helped in pushing forward the unified logging initiative by updating existing logging approaches to make use of a new logging framework
- Designed and implemented a job scheduling architecture in React Native to provide an upgraded means for developers to run tasks and perform work through an event driven system with gains expected in maintainability, readability and scalability
- Designed and developed a widget in react as a side project for use in an internal tool to help increase communication and provide important resources for developers running experiments in marketplace

Fullstack Developer Intern   May. 2021 – Aug 2021
RBC   *Toronto, ON*
- Maintained client side for a business financial services portal using Angular, RxJs and NgStore and helped to develop accessibility feature requirements
- Involved in proof of concept research for new technologies/solutions and implemented prototypes
- Helped to develop a content management system in Kotlin with Spring Boot, Hibernate, Github API and VueJs as a side project to directly aid developers in reducing time spent on content related bugs and features

Backend Developer Intern   Sept. 2020 – Dec 2020
ProntoForms   *Ottawa, ON*
- Built and maintained the server side for a low code, field service management solution in Spring + Hibernate
- Built an internal API for dynamic logging from concept through deployment and helped develop a circuit breaker for AWS SQS async job filtering with Redis
- Completed testing on all levels including E2E tests, integration and unit using Rest-Assured, Selenium and JUnit

PROJECTS

Raycaster Graphics Engine | *Typescript, HTML Canvas*
- A raycaster engine and game with 3d simulation rendering + shadows, collision detection, audio and A* pathfinding for AI NPCs made from scratch in TS

Neural Network Framework and MNIST Classifier | *Python/Flask, NumPy, React*
- A general neural network framework developed from scratch using Python and NumPy
- MNIST dataset trained on the framework and deployed on a Flask/React web app for user interaction with model

TECHNICAL SKILLS

Languages: Java, Kotlin, Python, SQL, JavaScript, Typescript, HTML/CSS
Frameworks: React/React Native + Redux, Node.js, Flask, JUnit, Angular + NgStore + RxJs, Java Spring, NGINx
Developer Tools: Git, Docker, Jira, Jenkins, AWS S3/EC2, VS Code, IntelliJ
Databases and ORMs: MySQL/PostgreSQL, MongoDB, Redis, Hibernate, Firebase