

Syed Salman Husainie

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Skills

LANGUAGES Python, Java, C/C++, HTML, CSS, JavaScript, TypeScript, GraphQL, Kotlin
FRAMEWORKS & SOFTWARE Git, Node/Express.js, React, Pytest, Google Workspace, MongoDB, Jetpack Compose

Work Experience

Environment and Climate Change Canada | Software Developer Intern Jun 2023 - Sep 2024

- Engineered a full-stack web application (RadarNetz) from the ground-up using React, Django, MySQL, and Python, automating key operational workflows for the National Radar Program including maintenance reporting, task tracking, and radar site information management.
- Conducted numerous demonstrations of the RadarNetz application to both engineering teams and senior ECCC leadership, effectively communicating technical progress and project value.
- Streamlined routine processes by replacing manual tracking methods (Excel) with a centralized digital solution, significantly improving data accuracy and accessibility for radar maintenance and operational tasks.
- Followed an Agile-like development structure with bi-weekly sprints, daily standups, and frequent communication to address any potential blockers towards milestones.

Projects

ML Model Comparison for Text Classification Sept 2025- Dec 2025

- Collaborated on a technical team to develop and compare machine learning model families including Neural Networks (MLP), Decision Trees, Random Forests, and Naive Bayes, to classify text-based student responses with up to 74% test accuracy.
- Designed comprehensive data cleaning and preprocessing of a noisy dataset, implementing text vectorization with TF-IDF and L2 normalization to ensure data usability across high-dimensional feature sets.
- Implemented a Naive Bayes classifier utilizing Multinoulli strategies for mixed data types, and optimized performance through Laplace smoothing and MAP learning with Beta and Dirichlet priors.
- Authored the final technical project report analyzing model generalizability and per-class precision.

CENTRO | CheaprEats Analytics Team Sept 2022 - Dec 2022

- Developed a Progressive Web App to help students budget/manage their finances, focusing on the backend implementation of RESTful APIs.
- Responsible for implementing the GraphQL resolvers (Node/Express.js, Typescript) to provide financial data to the frontend team.
- Designed the system architecture to incorporate analytic forecasting and data models used in the API resolvers.

Education

UNIVERSITY OF TORONTO | B.Sc (Hons) Computer Science Toronto, ON | Sep 2020 - Present

- Expected Graduation: Fall 2026**
- Relevant Courses: Introduction to Software Engineering, Algorithm Design and Complexity, Intro to Machine Learning, Operating Systems.