

Anas Mohamed

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EXPERIENCE

DevFacto - Junior Developer (Intern)

01/2019 – 09/2019

- Main stack was **.NET Core, React(Typescript), SQL Server** and **Azure DevOps** for project management.
- Developed a Geo-mapping web application for trailers & inventory. Worked on the frontend & setting up an audit log.
- Worked on a dynamic questionnaire system for commercial use. Contributed to frontend, and setting up an easily extensible & modular SQL Server database.
- Started the development of an internal tool for tracking & recommending different technologies for projects at DevFacto. Collaborated with UI/UX research in gathering requirements and developing the frontend.

Edmonton, Canada

EDUCATION

BSc Specialization in Computing Science

09/2016 – 04/2021

University of Alberta

Edmonton, Canada

Relevant Courses:

- CMPUT 379 - Operating System Concepts (Done)
- CMPUT 401 - Software Process and Product Management (Done)
- CMPUT 481 - Parallel and Distributed Systems (Current)

PROJECTS

Perf-Agent (Open-Source)

Eclipse OpenJ9 Performance Analyzer

Learned & used **C++, JVMTI, Socket Programming**

- Developed a tool for collecting & recording Eclipse OpenJ9's runtime performance utilizing JVMTI for JVM metrics & perf for system level metrics.
- Contributed the core threading implementation and resolved a number of complex issues in the design. Delivered the core for the server and the network client, and also handled capture of verbose GC logs and contributed to the overall infrastructure.

SU Elections Management Portal

Learned & used **Vue.js, Django, Docker & GitHub Actions**

- Led 6-person team in a term-long group project.
- Developed a web app that would handle and streamline the process of creating and submitting club/association elections to the Student Union's.
- Worked on setting up authentication, UI/UX, containerizing our project, setting up CI/CD using GitHub Actions.

Kagi

Learned & used **Go, Key-Value database design**

- A lightweight key-value store implemented in go.
- Kagi is a on-disk database that utilizes B+Tree for data organization & access.
- Setup tests & benchmarks using Go's built-in testing library.

SKILLS

Frameworks

React, Vue, Django, Ruby on Rails

Project Management

AzureDevOps, GitHub projects

Databases

SQL Server, PostgreSQL, SQLite

Programming Languages

C/C++, Python, TypeScript, C#

Software Development (SDLC)

Agile Development, Test-Driven Development, CI/CD

Tools/Version Control

Linux, Vim, VSCode, git, Docker