

Areeb Hyder

3A Computer Engineering Student • University of Waterloo

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SUMMARY

Languages: C • C++ • Java • Kotlin • GO • Python • Scala • JavaScript • SQL

Frameworks & Libraries: Spring • Django • Node.js • React • MongoDB • MySQL • PyTorch • TensorFlow

Tools: Git • Docker • Heroku • TeamCity • Microsoft Azure • Postman

EXPERIENCE

Ritual

Jan 2020 - April 2020

Software Engineering Intern, Server Core

Java / Spring / Node.js

- Reduced the number of sync conflicts by [designing a new caching mechanism](#) with [50% fewer cache loaders](#)
- [Redesigned the order flow algorithm](#) to implement a new loyalty program, employed by [+1000 merchants](#)
- Deprecated API middleware, rerouting requests to [Spring endpoints](#) for a more [secure service architecture](#)

AlertDriving

May 2019 - Aug 2019

Software Engineering Intern, Platform Core

Python / PHP / JavaScript

- [Improved data retrieval speeds 5x](#) by creating a new server-end API, generating [+10 000 requests per day](#)
- Analyzed queries to [lower T-SQL run times 15%](#), by improving database design and reducing bottlenecks
- [Designed microservices](#) to autonomously power billing procedures, reducing the need for manual initialization

OpenText

Sept 2018 - Dec 2018

Software Engineering Intern, Tools

Java / Angular.js / MySQL

- Created and owned an internal web based booking system used to [reduce server allocation conflicts by 95%](#)
- [Enhanced product security](#) and reduced fraudulent logins, by [integrating keycloak](#) as an authentication service
- Developed a project management tool in Spring, launched company wide and [used by +800 employees](#)

Ontario Medical Association

Jan 2018 - April 2018

Software Engineering Intern, Full Stack

C# / .NET Core / Azure

- Refactored the backend architecture, improving response times by [converting SOAP APIs into REST APIs](#)
- Designed and [developed a data migration program](#), allowing clients to claim records containing their PII data

PROJECTS

Jarvis

Intelligent desktop assistant controlled via voice commands

Python / Google Speech API

- [Created an assistant](#) using open source libraries that can send emails, update calendars and perform web searches. [Integrated a neural network](#) to train the assistant and improve its response based on user input

Watonomous

UW Autonomous Vehicle Design team

C++ / Python / PyTorch / OpenCV

- Collaborated in a team to research, design and train a CNN to create an [object detection framework](#)

EDUCATION

University of Waterloo

Sept 2017 - Present

- Candidate for BAsC in Honours Computer Engineering
- **Relevant Course Work:** Data Structures & Algorithms • Introduction to Machine Learning (Coursera) • Probability Theory & Statistics • Embedded Microprocessor Systems • Digital Hardware Systems • Compilers