FURAHA DAMIEN

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EDUCATION

Georgia Institute of Technology
Master of Science, Computer Science

📍 Atlanta, Georgia

McGill University
Gerald Schwartz & Heather Reisman Foundation scholar

World University Service of Canada Scholar

Bachelor of science, Computer Science and Biology

📍 Montreal, Quebec

University of San Francisco
Certificate in family and applied economics

📍 California, USA

EXPERIENCE

Software Engineer
Microsoft | Azure Core

📅 March 2021 - Present

- Developing innovative techniques for tenant balancing to optimize the distribution of workloads among Azure Storage tenants based on their Storage Disk, Bandwidth, Memory and TPS requirements. With several Zettabytes of data and more than 500 Trillions Transactions a month, I work on developing algorithms to balancing this load across the fleet.
- Leading development of cross org efforts between Azure Storage and Azure compute to help optimize deployment of Storage disks and Compute cores across Availability Zones in all azure regions
- Building software systems to monitor availability and utilization of storage resources in Azure data centers all over the world

Software Engineer Intern
Microsoft

📅 May 2020 – August 2020

- Developed a top secrete messaging functionality in the consumer version of Microsoft Teams that Microsoft filed a Patent for
- Designed and implemented from scratch a scalable backend system
- implemented security, privacy, data protection and compliance for the backend

Software Engineer Intern
Ericsson

📅 July 2019 – August 2019

- joined Ericsson garage as part of a team from **reelyActive** contracted by Ericsson
- developed the entire backend of a real-time location system that tracks people and gadgets using Bluetooth Low Energy(BLE)
- developed an algorithm for tagging people/gadgets sniffed by 12 BLE sensors across three rooms alongside another intern

Software Engineer Intern
reelyActive

📅 May 2019 – August 2019

- built version 1.0.0 of json-silo, an IoT web tool for storing information sensed using Bluetooth Low Energy in real-time location
- obtained over 100 weekly downloads on npm and used by University of Southern California in their IoT sever-side software

SKILLS

Programming Languages:

Java, C++, C#, Typescript, Python, Swift, PHP, bash, Ruby, Kusto, Latex

Tools and Technologies:

Nodejs, Git,Linux, .Net Core, iOS development, Firebase, Data Linearization, REST APIs, Service Fabric, UML, Eclipse, Xcode,Azure, AWS, GCP, Data Structures and Algorithms, Software Development, Distributed Systems

Languages:
Proficient: English, Swahili, Kirundi
Beginner: French

PROJECTS

MedsimpliAI
📅 Dec 2019 - present

- led the development of the backend of a project entered in Microsoft's and RBC's Algorize AI for social good challenge
- Integrated microsoft's Azure OCR and Computer vision APIs to create a REST API for text recognition using NodeJs
- used MongoDB to store user data

Nodejs, MongoDB, Azure Cognitive services, python, Computer Vision

Human Genome
📅 June 2017 - Dec 2019

- developed a Machine Learning Hidden Markov Model to annotated a genome
- created a novel algorithm for identifying genes in DNA sequences based on Viterbi algorithm
- trained the model on Vibrio cholera genome and identified up to 36% of the genes

Java, Hidden Markov Models

frada
📅 April 2019 - present

frada is an iOS app that uses swift Machine Learning kit for text detection from an image and creates pdf.
- uses Google's Firebase ML kit and cloud services
- frada is written in Swift and uses Tesseract-OCR-iOS.

Swift, Firebase, Swift ML Kit, Tesseract-OCR-iOS

HACKATHONS

Microsoft Internal Hackathon
📅 July 2020   📍 Global

Hack the North
📅 Sept 2019   📍 Waterloo, Ontario

DeloitteHacks - AI Edition
📅 March 2019   📍 Montreal, Quebec

HackHavard
📅 Oct 2018   📍 Cambridge, Massachusetts