

DANISH DUA

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SKILLS

Languages: Go, Python, Swift, C++, Java, JavaScript, TypeScript, Shell, SQL
Tools and Frameworks: iOS, Android, Unity, Kafka, NoSQL (Mongo, Cosmos), SQL (Postgres, MySQL)
Infrastructure: Kubernetes, Docker, Docker-Compose, Helm, NGINX, Kong, Azure, AWS

EDUCATION

University of Alberta Edmonton, AB
B.Sc Computer Engineering (Software Specialization) *GPA: 3.6* Sep 2016 - Present

- **Junior Engineering Design Competition** Nov 2017
University of Alberta Engineering Competition's Junior Design category winner. Selected to represent the school at the Western Engineering Competition in Burnaby
- **University of Alberta Centenary scholarship** Sep 2016 - May 2020
Awarded to students with superior academic achievement entering the first year of an undergraduate degree program at the University of Alberta

EXPERIENCE

Microsoft Vancouver, BC
Software Engineering Intern January 2019 | April 2019

- Scoped the MVP for a Microsoft garage project for 14 weeks and pitched it internally
- DevOps Champion for the first sprint of the project, built the CI/CD pipeline. Setup the git branch securities and policies for the team
- Working on a .NET core API to be ran locally for an application as an interface between another application and an electron app

Green Brick Labs Kitchener, ON
Full Stack Developer Co-op April 2018 | August 2018

- Implemented internal tooling in Go to automate service discovery and registration with Kong API Gateway by parsing service specs from OpenAPI documentation. Also registered Kong plugins as well as registered/patched routes as necessary with zero downtime
- Worked on the Identity Provider microservice; implementing the account registration, password reset, and admin account control workflows. Used JSON Web Tokens to share user and admin access claims
- Converted multiple microservices, database containers, shared kafka instance and architecture skeletons from Docker Compose to Kubernetes
- Implemented a base Kafka skeleton using Confluent's Kafka API for Golang, to be used as a standard for Kafka usage internally

Dept. of Civil Engineering, University of Alberta Edmonton, AB
Data Science Volunteer May 2017 | July 2017

- Wrote MATLAB scripts to clean and sort power consumption data for more than 100 homes in Alberta using power management systems for a research student studying their effectiveness
- Automated data collection from a web application provided by the vendor which required the user to manually view and download data after a fixed interval

PROJECTS

MSNewsAR *Swift, ARKit, Python, Azure*
devpost.com/software/msnewsar
news.microsoft.com with video as a supplement to images in AR. Dynamic parsing at backend to find related videos. Proof of concept at NWHacks2019. **Winner**, *Microsoft Best Azure Hack* and *Microsoft imagine cup 2019 semi-finalist, Americas region*.

ARKit-Drawing *Swift, ARKit*
github.com/dandua98/ARKit-Drawing
Drawing shapes and placing objects on planes/freeform/images using ARKit

ParticleRun *NodeJS, MongoDB, C++*
github.com/CalgaryHacks2018/particle_run
Particle electron web based social run tracker built at Calgary Hacks 2018. Publishes data to Particle Device Cloud which the web app listens to using particle JavaScript API to plot and share runs