

DANISH DUA

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EDUCATION

University of Alberta

B.Sc Computer Engineering (Software Specialization) GPA: **3.6**

Edmonton, AB

Sep 2016 - May 2021

SKILLS

Languages: Go, Python, Java, C/C++, JavaScript, Shell, SQL, HTML, CSS, LaTeX
Full Stack: Gin, Flask, Node.js, Vue.js, Sails.js, Apache Kafka, MongoDB, PostgreSQL, Android
Infrastructure: Kubernetes, Docker, Docker-Compose, Helm, NGINX, Kong
Other Tools/Libraries: OpenCV, numpy

EXPERIENCE

Green Brick Labs

Full Stack Developer Co-op

Kitchener, ON

April 2018 | August 2018

- Implemented internal tooling written in Golang to automate service discovery and registration with Kong by parsing OpenAPI Swagger 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
- Worked on API Gateway using Kong and NGINX for rate limiting, logging and load balancing, helping put together more than 14 microservices at a common endpoint
- 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

Data Science Volunteer

Edmonton, AB

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 which required the user to download it manually after a fixed interval to avoid data averaging to longer intervals

PROJECTS

Pigeon

github.com/dandua98/Pigeon

A chat web app with our own implementation of SHA-256 hashing algorithm for CMPUT 275 final project

Python, Flask, Websockets, MongoDB

ParticleRun

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

NodeJS, MongoDB, C++

Arduino Music Player

github.com/dandua98/ArduinoMusicPlayer

An Arduino mega music player with a GUI implemented on an Adafruit TFT screen.

C++, Fritzing

CryptowatchForMac

github.com/dandua98/CryptowatchForMac

A MacOS Status bar app powered by cryptowat.ch API to view your favourite cryptocurrency's live prices. Supports more than 15 different exchanges and 100+ currencies

Python, Rumps

AWARDS

Junior Engineering Design Competition

University of Alberta Engineering Competition's Junior Design category winners. Selected to represent the school at the Western Engineering Competition in Burnaby

Faculty of Engineering, University of Alberta

Nov 2017

University of Alberta Centenary scholarship

Awarded to students with superior academic achievement entering the first year of an undergraduate degree program at the University of Alberta

University of Alberta

Sep 2016 - May 2020