

# DANISH DUA

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<https://dandua.com>

## SKILLS

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Languages: Go, Python, Java, C++, JavaScript, Shell Scripting, HTML, CSS  
Full Stack: NodeJS, PostgreSQL, MongoDB, Flask, MySQL, Swagger, Bootstrap  
Frameworks/Tools: Docker, Kong, Docker Swarm, Nginx, Kubernetes, Hydra, Swagger

## EXPERIENCE

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### Green Brick Labs

*Full Stack Developer Co-op*

Kitchener, ON  
April 2018 | Present

- Working on the API gateway team using Kong and Nginx for rate limiting, logging and load balancing, helping put together more than a dozen Microservices at a common endpoint
- Converted multiple microservices, database containers and migrations, base architecture skeletons from Docker Compose to Kubernetes
- Made internal tooling to automate microservice registration with Kong by parsing Swagger documentation for a service and registering/updating routes with zero downtime
- Working on accounts service and securing password reset, change password and admin control on accounts using a JSON Web Token generation

## EDUCATION

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### University of Alberta

B.Sc Computer Engineering *GPA: 3.6*

Edmonton, AB  
Sep 2016 - May 2021

## PROJECTS

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### KongSDK *Go, Kong, Docker*

A work in progress complete Golang SDK for Kong

[github.com/dandua98/KongSDK](https://github.com/dandua98/KongSDK)

### Arduino Music Player *C++, Fritzing*

An Arduino mega music player with a GUI implemented on an Adafruit TFT screen. For CMPUT-274 final project, received one of the best projects remarks from TA

[github.com/dandua98/ArduinoMusicPlayer](https://github.com/dandua98/ArduinoMusicPlayer)

### CryptowatchForMac *Python, Rumps*

A MacOS Status bar app powered by cryptowat.ch API to view your favourite cryptos. Trying to offer the most feature rich status bar application for cryptocurrencies

[github.com/dandua98/CryptowatchForMac](https://github.com/dandua98/CryptowatchForMac)

### FingerCount-OpenCV *Python, OpenCV, Numpy*

Finger counting using OpenCV. Built at HackEDBeta2017, initially used to control video players with finger count

[github.com/dandua98/FingerCount-OpenCV](https://github.com/dandua98/FingerCount-OpenCV)

### Pigeon *Python, Flask, Websockets, MongoDB*

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

[github.com/dandua98/Pigeon](https://github.com/dandua98/Pigeon)

## AWARDS

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### Junior Engineering Design Competition

Awarded to University of Alberta's Engineering competition's Junior Design category winners. Selected to represent University of Alberta at 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

### University of Alberta First Year Excellence Scholarship

Sep 2016

### International Entrance Leadership Scholarship

Sep 2016