

Danish Dua

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EDUCATION

University of Alberta

BSc IN COMPUTER ENGINEERING

Sep 2016 - Present | Edmonton, AB

Cum. GPA: 3.6 / 4.0

LINKS

Github:// **dandua98**

LinkedIn:// **dandua98**

Twitter:// **@danish_dua**

Medium:// **@danishdua1998**

Devpost:// **dandua98**

SKILLS

Languages

Go • Python • JavaScript • TypeScript
• Java • C# • Swift • C++ • Shell • CSS

Infrastructure

Azure • AWS • GCP • Kubernetes •
Docker • Docker-Compose • Helm •
NGINX • Kong • Kafka • Redis

Frameworks

Node • React • Vue • Redux • iOS •
Android

COURSEWORK

File and Database management

Object-Oriented Software Design

Computer Organization and
Architecture

Software Requirements Engineering

Intro to Tangible Computing

Formal Systems and Logic in

Computing Science

EXPERIENCE

Microsoft | SOFTWARE ENGINEERING INTERN

January 2019 - April 2019 | Vancouver, BC

- Owned Azure Function deployment process for a VSCode extension to help web developers generate a web app with incorporated cloud services.
- Implemented *Internationalization* and *Keyboard Navigation* for a React frontend (for the extension) running as an Electron Webview. This enabled the application to be more accessible and meet WCAG accessibility guidelines.
- Converted Azure REST API deployments to ARM templates to improve the extension's maintainability and extendibility and at the same time make the deployments more transparent to our users.
- Developed scaffolding for the extension's merging engine (**GitHub: Microsoft/CoreTemplateStudio**) API with fakes to make it available to the extension for internal demos.

Green Brick Labs | FULL STACK DEVELOPER INTERN

April 2018 - August 2018 | Waterloo, ON

- 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 and routes 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.

University of Alberta | DATA SCIENCE VOLUNTEER

May 2017 - July 2017 | Edmonton, AB

- 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

Pending PR | GitHub Marketplace: Pending PR | TypeScript

A *GitHub app* to help you manage issues in pull requests (PRs) better. Installed on more than a 100 repositories within first week of launch, with customers including **Microsoft** and **Softagram**.

MSNewsAR | Devpost: software/msnewsar | Swift, Python, Azure

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 use of Azure Hack*, *Wolfram Award for Best Hacks* and *Microsoft imagine cup 2019 semi-finalist*, Americas region.

AWARDS

2019	NWHacks	Microsoft Best use of Azure Hack for MSNewsAR
2019	NWHacks	Wolfram Award for Best Hacks for MSNewsAR
2019	XDHacks	Top 6 and Best Hacks finalist for Research Hub
2017	University of Alberta	1st place at Junior Engineering Design Competition
2016	University of Alberta	Centenary Scholarship