Armianto Sumitro

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Work Experience

Microsoft Garage   Software Engineer Intern

May - August 2020   Vancouver, BC

- Used C# and DirectX capture API to implement animated GIF recorder for PowerToys
- Worked on a confidential project with Azure Functions as part of Microsoft Global Hackathon involving Kubernetes
- Implemented an auto collage image generator ([Microsoft Gryd](#)) from user's OneDrive using Flask and React
- Defined and implemented a scalable code and data architecture for a synchronous multiplayer game using Angular, Phaser, Express and Socket.io

Nokia   Security Developer Intern

Jan - April 2020   Kanata, ON

- Maintained custom RPM, docker, and helm deployments of Keycloak
- Implemented a system to inject jar modules to docker deployments of Keycloak via init containers and config maps
- Wrote a Jenkins pipeline to automate Keycloak tests in Centos8

University of Alberta   Research Assistant

May - August 2019   Edmonton, AB

- Designed a scalable database manager app in C# WPF to easily view and download data from mongoDB, Cassandra, MySQL and Azure CosmosDB
- Wrote a C# and Java interface to pipe ~6,000 tags per second from OPC-DA server to mongoDB, Cassandra, MySQL, and Azure CosmosDB
- Set-up a Hadoop and mongoDB cluster to aid Big Data analysis

Projects

2021 **GrokJS (HackED 2020)**   NodeJS, Typescript
VSCode plugin to help new developers learn Javascript

2020 **Unlibrary (course project)**   Android, Firestore, Hilt
Android app that lets users track their book lendings and borrowings

2019 **Fundus eye GAN (Deans research award)**   Python, Matlab
Helps doctors classify arteries and veins in fundus eye images

BetterBearTracks (HackED 2019)   Electron, Typescript
Course scheduler that automatically builds the best calendar for students

2019 **ARVP (university club)**   C++, Python, ROS
Self-driving underwater vehicle developed with a custom made simulator

2018 **AI Pong (HackED Beta 2018)**   C++, Python, Keras
Play Pong against an machine learned model. Built from scratch.

Education

University of Alberta

B. Sc. in Software Engineering

Class of 2022

Cumulative GPA	3.9/4.0
Completed academic terms	7/8
Completed work terms	4/8
Length of next work term	4 mo

Achievements

- University of Alberta Undergraduate Scholarship (International), 2019
- Suncor Energy Emerging Leaders Dean's Undergraduate Citation in Engineering, 2018
- Faculty of Engineering Academic Excellence Scholarship, 2017
- International Student Scholarship 2017
- University of Alberta International Country Scholarship, 2017

Skills

Programming languages

Proficient	C#, Python, Typescript
Fluent	C++, HTML, CSS, Go, Java
Familiar	Matlab, Kotlin, Rust, Golang

Technologies/frameworks

Angular	Redux	mongoDB
React	Keras	Cassandra
Express	Hadoop	MySQL
Flask	Phaser	socket.io

Other Activities

- Numerical Methods (CMPUT 340) Teaching assistant, Winter 2021 - Present
- Participated in Alberta Heritage Festival, 2019
- Participated in Central Church Serve Day, 2018 & 2019
- Designed posters for the Indonesian Student Association at UofA, 2017 - present