Nathan Mikhail

3rd year Nano Systems Design Computer Engineering student studying at the University of Alberta

mikhail@ualberta.ca

780-228-4883

nathanmikhail.github.io

linkedin.com/in/nathan-mikhail/

github.com/natemik

EDUCATION

Nano Systems Design Computer Engineering
University of Alberta

09/2017 – 08/2019

Co-op Status

- Completed Work Terms: 1
- Completed Academic Terms: 5/8
- Length of Next Work Term: 8 months

WORK EXPERIENCE

Full Stack Software Developer
Worker's Compensation Board of Alberta

05/2019 – 08/2019 *Edmonton, AB*

Achievements/Tasks

- Facilitated meetings with the business to develop an internal web application used company wide
- Implemented an end to end testing environment which decreased the testing time of the internal tool by 99%
- Created a structured implementation plan and deployed the application to production

Back Shop lead/Pro Shop Associate
Grande Prairie Golf and Country Club

05/2018 – 08/2018 *Grande Prairie, AB*

Achievements/Tasks

- Managed a club storage system and assisted in leading the back shop team
- Assisted in running the Pro Shop while maintaining a proper schedule on the golf course

Freestyle Ski Coach
Northern Extreme Freestyle Ski Team

11/2016 – 04/2017 *Grande Prairie, AB*

Achievements/Tasks

- Mentored, coached and evaluated young freestyle skiers
- Lead as team coach at out of town competitions

VOLUNTEER

St. Josephs College Sports Representative (09/2018 – 04/2019)
Sports Representative

St. Josephs College Mentor (09/2018 – 04/2019)
Student Mentor and Tutor

SKILLS

ReactJS | C# | Javascript | C++ | Python | Visual Studio | Team Foundation Server

PROJECTS

Route Finder (02/2019 – 04/2019)

- Arduino based project displaying the shortest driving route in Edmonton between two points on a map, ran by a C++ back end
- Implemented Dijkstra's algorithm as well as a weighted digraph and binary heap to calculate which way points would be used in the fastest route

Graphing Calculator (01/2019 – 04/2019)

- Arduino implemented graphing calculator, implementing the Shunting Yard algorithm which utilizes a stack to convert an infix expression to a postfix expression
- Utilized a serial connection between a laptop server and the Arduino client

Edmonton Restaurants (01/2019 – 02/2019)

- Arduino based project displaying a map of Edmonton as well as locations of restaurants via an OLED display, all ran by a C++ back end
- Implemented unique sorting techniques, scroll able lists as well as configured GPIO pins for physical controls

ACHIEVEMENTS

University of Alberta Intramural Participant of the Year (09/2017 – 04/2018)
Participated in almost all sports, playing just shy of 100 total games in the year

UAlberta Cup & Intramural Cup Winners (09/2017 – 04/2019)
Member and Lead of the unit/group winning the Cups

INTERESTS

Piano | PC Building | Sports/Athletics | Competitive eSports