Aaron A. McGrath

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CAREER PROFILE

Software Engineer since 2017. Worked for one of the world's biggest electronics companies as a software developer, a University Laboratory as well as a local company developing a pair of iOS apps for a customer in Utah.

CAREER HIGHLIGHTS

- Designed, built and tested iOS Apps in Objective C & Swift
- Worked on a telecommunications project in C++ and Linux environment
- Degrees in Electrical Engineering and Mathematics

PROFESSIONAL EXPERIENCE

immediaC Worldwide Halifax, NS Mar 2021 to Present
For more than 20 years immediaC has been helping businesses achieve their goals with professional website development services.

Software Engineer March 2021 to Nov 2022
Designed and implemented of a pair of apps one customer facing the other contractor facing that communicate via a centralized server that also serves a customer facing web app. The apps have a custom messaging feature, profile info, push notifications, OAuth security and are built and tested in SwiftUI

Samsung Group / Sigmast Communications Bedford, NS Nov 2019 to Dec 2020
Samsung Group is a South Korean multinational conglomerate headquartered in Seoul, Korea. It comprises numerous affiliated businesses, most of them united under the Samsung brand. Sigmast Communications is a subsidiary developing the RCS standard for Samsung's cell phones.

Software Engineer Nov 2017 to Dec 2020
Design, testing and maintenance of the RCS Hub Software:
- Designed and built iOS client for RCS software
- Implemented improved testing practices in a Linux, C++, SQL micro service architecture resulting in decreased testing costs.
- Created and updated documentation resulting in formalized information flow and decrease reliance on senior staff for new team members.
- Refactored legacy code to take advantage of software best practices.

Cahill Industrial St John's, NS May 2016 to Nov 2017
One of the largest multidisciplinary construction companies in Canada. With operations from Eastern Newfoundland to Northern Alberta, Cahill is building the future of oil and gas, mining, hydro, and social infrastructure on some of the largest construction and fabrication project sites in the country.

Field Engineer May 2016 to Nov 2017
Supported the construction of 16 SAGD well pads in the Alberta oil sands, Quidi Vidi Long Term Care Facility and the construction of the Soldier Pond 900MW HVDC converter station:

- Review, management and interpretation of construction drawings resulting in proactive management of construction progress.
- Inventory receiving and control of large industrial scale components supporting effective management of project resources and responsibilities.
- Liaised with Client Engineers to resolve construction challenges as they developed.

Dalhousie University Aquatron Lab Halifax, NS Sept 2015 to May 2016
Dalhousie University's cutting-edge aquatic research facility. Considered by many to be one of the best in the world, the Aquatron is the largest university aquatic research facility in Canada.

Engineer May Sept 2015 to May 2016
Designed and built an electromechanical aquaculture filter prototype to with a team of engineers and technicians:

- Developed a bluetooth remote control to run the prototype from an iPhone.
- Wrote code to control motor driver, communicate with operator via LCD display, sound audio alarm in level sensor was triggered and run in cleaning mode and normal mode depending on the state of a switch.
- Created sophisticated CAD assemblies in SolidWorks to support several iterations of prototypes resulting in a design that met criteria with minimize cost and development time.
- Presented the teams final design and earned first place in the design competition.

EDUCATION

DALHOUSIE UNIVERSITY, Halifax, NS, 2011-2016
B.Eng, Electrical Engineering

DALHOUSIE UNIVERSITY, Halifax, NS, 2004-2008
B.Sc, Mathematics

EXTRACURRICULAR & VOLUNTEER ACTIVITIES

Running and Skateboarding with my Dog

Snowboarding

Electric Guitar