

EDUCATION

Simon Fraser University
SEPT 2014 – APRIL 2019

B.A.Sc. Computer Engineering
• **Dean's Honor Roll Recipient 2017/2018**

Software Coursework Algorithms and Data Structures, Databases, Operating Systems, Machine Learning
Hardware Coursework: Computer Architecture, Electric Circuits, Digital Logic Design, Signal Processing

WORK EXPERIENCE

iOS Engineering Intern
Form Athletica (Startup)
SEPT 2018 – DEC 2018

- Developed a companion app for an augmented reality fitness wearable that used BLE
- Shaped pixel perfect user interfaces by working alongside UI/UX designers
- Optimized the networking layer by 40% by improving the raw data decoding and adding multi-threaded processing
- Leveraged knowledge of RxSwift alongside MVVM and dependency-injection design

Programming Mentor
Udacity
NOV 2017 – AUG 2018

- Participated as a mentor to hundreds of students online who were learning software development for the first time
- Reviewed student's projects and submitted feedback to help them improve
- Promoted correct coding conventions and best practices
- Wrote blogs and other online tutorials

System Support Engineer Intern
SAP Canada
MAY 2016 – APRIL 2017

- Developed an internal iOS app that leveraged SAP's mobile development platforms to present a list and map of all discounts available to SAP employees
- Solved critical issues that effected the downtime of customers systems
- Debugged errors during upgrades, installations, source code implementation and database migrations
- Published internal and external knowledge articles that would solve common problems

OPEN-SOURCE AND PERSONAL PROJECTS

MessageKit / InputBarAccessoryView
iOS Framework
AUG 2017 – PRESENT

- Spearheaded the development of a robust and versatile InputAccessoryView that the library uses as its message input view
- Implemented autocomplete functionality for users, hashtags or any other prefix
- Integrated typing indicator support to match the style of iMessage or Slack
- Maintained the project and the additions made by contributors using Slack and GitHub
- Maintains nearly **2400 stars on GitHub** and growing

Parse Dashboard for iOS
iOS Application
MARCH 2017 – MAY 2018

- A mobile client for viewing and editing objects stored in a Parse Server via REST
- Parsed JSON and inferred data types to determine a more user-friendly interface
- Launched on App Store and reached **over 6000 downloads** worldwide

Loki – Emotion AI
iOS Application
NWHacks 2018

- Leveraged ARKit to train a neural net with TensorFlow to produce a machine learning model that accurately read emotions in real time
- Developed with teammates at a hackathon as a proof-of-concept that emotion recognition could be used to deliver targeted advertising to users in real time

SKILLS

Software

Swift, Objective-C, C/C++, Java, JavaScript, HTML/CSS, Git, SQL, MATLAB, VHDL

NATHAN TANNAR

VOLUNTEER EXPERIENCE

Faculty of Applied Science Ambassador

Simon Fraser University

SEPT 2017 – AUG 2018

- Organized presentations with teachers in local Vancouver high schools
- Spoke to grade 11 and 12 students about the opportunities you can seize by perusing a passion for technology and applied science
- Showcased the Engineering Science and Computer Science programs to prospective students

Chair

SAP Vancouver Intern
Community

SEPT 2016 – APRIL 2017

- Created, proposed and maintained the first annual budget given to the community
- Lead the organization of an external Hackathon targeted at finding new early talent
- Assisted with the onboarding of new interns
- Helped plan and executed everything from small weekly events to larger site wide events
- Hosted presentations on workplace expectations and the importance of networking

VP Communications

Western Engineering
Competition 2017

APRIL 2016 – FEB 2017

- Designed and programmed a website that included a portal where delegates could register, submit required files, and interact with others
- Helped to design graphics and resources used for branding, attracting sponsors the competition itself
- Worked with a team of volunteers during the event to ensure events ran smoothly
- Created transition documents for the incoming organizing committee of 2018

HOBBIES & INTERESTS

Motorcycles



Travel



UI / UX



Photography

