






# NATHAN TANNAR

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## EDUCATION

<b>Simon Fraser University</b> GRADUATING APRIL 2019	<b>B.A.Sc. Computer Engineering</b> <b>Dean's Honor Roll Recipient 2017/2018</b>	<b>5th Year</b>
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## TECHNICAL SKILLS

Languages	Swift, Objective-C, C/C++, JavaScript, HTML, CSS
Software	Git, Carthage, CocoaPods, NGINX, Fastlane
Platforms	iTunesConnect, Apple APNS, Google Cloud Platform
Frameworks	Alamofire, RxSwift, Swinject, IGListKit, UIKit, MapKit, CoreBluetooth

## WORK EXPERIENCE

<b>iOS Engineering Intern</b> Form Athletica SEPT 2018 – DEC 2018	<ul style="list-style-type: none"><li>Developed a companion app for an augmented reality fitness wearable that used BLE, MVVM and RxSwift</li><li>Worked alongside UI/UX designers to develop pixel perfect user interfaces</li><li>Re-built the networking layer that resulted in a performance increase of 40%</li></ul>
<b>Programming Mentor</b> Udacity NOV 2017 – AUG 2018	<ul style="list-style-type: none"><li>Served as a mentor to over 100 students online who were learning programming for the first time</li><li>Helped to promote correct coding conventions and best practices</li><li>Reviewed student's projects and submitted feedback to help them improve</li></ul>
<b>System Support Engineer Intern</b> SAP Canada MAY 2016 – APRIL 2017	<ul style="list-style-type: none"><li>Provided support for the world's leading enterprise application server, SAP NetWeaver, to customers and colleagues</li><li>Debugged errors during upgrades, installations, source code implementation and database migrations</li><li>Actively identified and suggested new technologies and tools for enhancing the team's productivity</li></ul>
<b>iOS Developer Intern</b> SAP Canada OCT 2016 – JAN 2017	<ul style="list-style-type: none"><li>Built, tested and deployed a native iOS app used internally by SAP employees worldwide</li><li>Implemented a backend connection to the SAP Cloud Platform to pull employee discounts and incentives to the user dynamically based on location</li><li>Implemented search and sorting functionality when viewing the data on a list or map</li></ul>

## OPEN SOURCE CONTRIBUTIONS

<b>MessageKit</b> iOS Framework AUG 2017 – PRESENT	<ul style="list-style-type: none"><li>Co-Lead the development of a customizable chat UI library in Swift to replace JSQMessagesViewController with contributors on Slack and GitHub</li><li>Implemented autocomplete functionality for users or hashtags</li><li>Developed a reactive InputAccessoryView for creating dynamic message input bars</li><li>Replicated the style and animations of iMessages's typing indicator</li><li>Maintains nearly <b>2400 stars on GitHub</b> and growing</li></ul>
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## SELF-DRIVEN PROJECTS

### 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 feed data into TensorFlow and create a machine learning model to 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

### Personal Webserver

AUG 2016 – PRESENT

- Configured a remote instance on Google Cloud Platform to host Nginx webserver,
- Managed MongoDB and MySQL databases to serve as a backend to my other projects

## 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



Graphic Design



Photography

