

# NATHAN TANNAR

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## PROFILE

Upcoming Computer Engineering undergraduate with 3 years of passionate software development experience from internships, personal projects and open-source contributions.

## SKILLS

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

## PROFESSIONAL EXPERIENCE

- |   |                                 |                       |
|---|---------------------------------|-----------------------|
| <b>iOS Software Engineer (Intern)</b>   | <b>Form Athletica (Startup)</b> | SEPT 2018 – DEC 2018  |
| <ul style="list-style-type: none"><li>Optimized the networking layer by 40% by improving the data decoding, background processing and caching</li><li>Established automation scripts to eliminate manual deployment of version releases</li><li>Utilized reactive programming, the MVVM architecture and dependency-injection to write testable software</li><li>Amazed UI/UX designers by creating pixel perfect user interfaces from their specifications</li></ul> |                                 |                       |
| <b>Programming Mentor</b>   | <b>Udacity</b>                  | NOV 2017 – AUG 2018   |
| <ul style="list-style-type: none"><li>Lead students towards success by promoting correct coding conventions and best practices</li><li>Participated as a mentor to hundreds of students online who were learning software development for the first time</li><li>Submitted code review for student's projects Python, HTML and JavaScript projects</li></ul>  |                                 |                       |
| <b>System Support Engineer (Intern)</b>   | <b>SAP Canada</b>               | MAY 2016 – APRIL 2017 |
| <ul style="list-style-type: none"><li>Developed an internal iOS app that was built upon SAP's mobile development platform</li><li>Reacted quickly to solve critical issues that affected the unexpected downtime of customers systems</li><li>Debugged bugs during upgrades, installations, source code implementation and database migrations</li><li>Published internal and external documentation on resolutions to common problems</li></ul>                      |                                 |                       |

## OPEN-SOURCE / PERSONAL PROJECTS

- |  |                                  |                      |
|--|----------------------------------|----------------------|
| <b>MessageKit / InputBarAccessoryView</b>  | <b>iOS Framework</b>             | AUG 2017 – PRESENT   |
| <ul style="list-style-type: none"><li>Spearheaded the development of a robust and versatile message input bar, a key component of the framework</li><li>Implemented autocomplete functionality for users, hashtags or any other keyword</li><li>Utilized the CoreAnimation framework to prototype a typing indicator to match the style of iMessage</li><li>Maintains nearly <b>2600 stars on GitHub</b> and growing</li></ul> |                                  |                      |
| <b>Parse Dashboard for iOS</b>   | <b>iOS Application</b>           | SEPT 2016 – AUG 2017 |
| <ul style="list-style-type: none"><li>Piloted a mobile client for viewing and editing objects stored in Facebook's open-source Parse Server database</li><li>Parsed JSON to infer data types to determine a more user-friendly interface</li><li>Developed features that utilized Apple's In-App-Purchase API's for microtransactions</li><li>Launched on App Store to reach <b>over 6000 downloads</b> worldwide</li></ul>    |                                  |                      |
| <b>Loki – Emotion AI</b>   | <b>NWHacks Hackathon Project</b> | JANUARY 2018         |
| <ul style="list-style-type: none"><li>Leveraged ARKit to train a neural net with TensorFlow to produce a machine learning model that accurately read emotions in real time from user's facial reactions</li><li>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</li></ul>   |                                  |                      |

## EDUCATION

- |  |                                |                        |
|--|--------------------------------|------------------------|
| <b>B.A.Sc. Computer Engineering</b>  | <b>Simon Fraser University</b> | SEPT 2014 – APRIL 2019 |
| <ul style="list-style-type: none"><li>Achievements: <b>Dean's Honor Roll Recipient 2017/2018</b></li><li>Software Coursework Algorithms and Data Structures, Databases, Operating Systems, Machine Learning</li><li>Hardware Coursework: Computer Architecture, Electric Circuits, Digital Logic Design, Signal Processing</li></ul> |                                |                        |