

# ALEX NGUYEN

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## EDUCATION

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**Tufts University** | Medford, MA

Bachelor of Science in Computer Science | May 2017

**Relevant Courses:** Algorithms, Computation Theory, Data Structures, Database Systems, Game Development, Machine Learning, Machine Structure & Assembly Language Programming, Mobile Development, Object-Oriented Programming for Graphical User Interfaces, Programming Languages, Web Development/Engineering

## SKILLS

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**Programming Languages:** C, C++, Java, JavaScript, Python

**Software/Technologies:** Android, CSS, Git, HTML, jQuery, JSON, Express, Node.js, NoSQL, SQL, Unity5, XML

## EXPERIENCE

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**Summer Intern** – State Street

June 2016 – August 2016

- Developed an interface used to generate and run a SQL statement based on the user's input
- Designed a web template for the company's weekly newsletter and created a generator that parses an email for content to produce the newsletter's HTML
- Created wireframes to reorganize and redesign the company's home page in cooperation with the UX/UI team

**Teaching Assistant** – Tufts University Department of Computer Science

January 2015 – May 2015

- Explained the fundamentals of C++ during lab and office hours for course, COMP11: Intro to Computer Science
- Provided constructive feedback on students' projects by critiquing functionality, style, readability, runtime efficiency, and modularity

## PROJECTS

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**QueueR**

- Developed and published an Android app queuing system to the Google Play Store that allows customers to enter a restaurant's waitlist via QR code
- Utilized Google Firebase to asynchronously retrieve customer data and to authenticate restaurant users
- Utilized the ZXing library to scan, generate, and decode unique QR codes for restaurants

**Whoop! | Tufts Hackathon 2016**

- Developed a vacation itinerary planner that displays attractions and upcoming events on a map in a team of three
- Full stack development using HTML, CSS, Express + Node.js, Google Maps API, and TripAdvisor API

**Incident Tracker**

- Developed a Ruby on Rails application used to track user-submitted incidents and display them on a timeline in a team of three
- Developed a RESTful API to manipulate the incident and user data in the PostgreSQL database

**Urban Translate | Tufts Hackathon 2015**

- Developed a Google Chrome extension that provides the top UrbanDictionary definition for user-inputted terms
- Wrote a script that creates a bubble overlay containing the definition for highlighted terms

## ACTIVITIES

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**JumboCode**

September 2016 – January 2017

- Developed a mobile application for Tufts Admissions to help prospective students navigate Tufts' preview day
- Developed using an Ionic framework, AngularJS, MongoDB, Google Maps API, and Node.js in a team of eight
- Published to the App Store and Google Play, accumulating approximately 650 downloads