

# Kareem Moussa

## Software Engineer (Backend)

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### Objective

To find a full-time software engineering position after I graduate in December 2017. I am particularly interested in working on systems, infrastructure, and machine learning.

### Education

#### University of California, San Diego

*B.S. Computer Science*

GPA: 3.77, *Provost Honors*

Relevant Coursework:

- *Distributed Systems (Graduate)*
- *Deep Learning / Neural Networks*
- *Networked Services*
- *Operating Systems*
- *Advanced Data Structures*
- *8-Bit System Game*
- *Computer Architecture*
- *Advanced Algorithms*
- *Statistical AI*

San Diego, CA

Expected: Dec 2017

### Work Experience

#### Leanplum

*Future Software Engineering Intern*

- KPCB Fellows Program 2017. Will use Java and Python.

San Francisco, CA

June 2017 – Sept 2017

#### Apple

*iOS Apps and Frameworks – Future Software Engineering Intern*

- Will use Objective-C and MySQL, with a focus on security and cryptography

Cupertino, CA

Mar 2017 – June 2017

#### Apple

*Developer Tools - Software Engineering Intern*

- Worked with Developer Tools on the Xcode development environment, using Objective-C and C
- Improved upon the search engine codebase in Xcode, and made contains-word searches 38% faster
- Worked mostly with concurrent code, MVC design pattern, parsing techniques, and Unicode

Cupertino, CA

June 2016 – Sept 2016

#### Musicnear.me ([www.musicnear.me](http://www.musicnear.me))

*Full-stack Developer*

- Quickly bootstrapped our startup's app with Meteor.js and Angular.js with a code coverage of 50%
- Increased average visitors/day by 200% within a month via marketing and pitching to investors

Remote

Feb 2016 – June 2016

#### Hacker Dojo

*Software Engineering Intern*

- Fixed bugs in the database through creating and managing unit tests in Python
- Contributed to REST API and created web content for the web-app, using Django and Google App Engine

Mountain View, CA

May 2015 – July 2015

#### WyzAnt

*Private Programming Tutor*

- Taught C++, Java, and iOS development to students who initially knew nothing about programming
- Emphasized teaching students how to self-learn and solve problems on their own, using a self-tailored curriculum

Cupertino, CA

Sept 2014 – Mar 2016

### Highlighted Projects (see all my projects at [kamoussa.me/projects](http://kamoussa.me/projects))

#### Intel 8080 Emulator

*(C, Objective-C)*

- Implemented the entire Intel 8080 instruction set and used concurrency to emulate the CPU / IO / Graphics
- Emulated additional hardware to support arcade classic games Space Invaders and Balloon Bomber!
- Built to scale up to an emulator of the Gameboy Original, which I am currently working on finishing

#### Data Science Competitions

*(Python)*

- Competed in 3 Kaggle data science competitions involving stocks, customer satisfaction, and rain prediction
- Implemented Concurrent Neural Networks, kNN, Linear Regression, KMeans, and Naïve Bayes models

### Skills:

- **Programming:** Strong: C/C++, Python, Objective-C  
Proficient: Swift, JavaScript, Java, Go, Ruby, R, HTML/CSS
- **Dev/Lab Tools:** Linux, Git, Xcode, Vim, Docker, Eclipse, Visual Studios, LaTeX, Amazon AWS, nginx, MySQL, Redis, WordPress