

# SAMEER KHOJA

full-stack engineer and open-source enthusiast

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## 🎓 EDUCATION

### Cornell University

BS, Computer Science  
BS, Operations Research and  
Information Engineering

Graduating May 2019

GPA: 3.9

### Texas Academy of Mathematics and Science

Dual Enrollment Program  
University of North Texas

Graduated May 2016

President's List

## 👜 WORK EXPERIENCE

### Function of Beauty (YC W16)

Summer 2015

#### Full-Stack Developer Intern

- Created platform for iPad kiosk integration, used at Y-Combinator's Demo Day.
- Developed and maintained a LAMP stack, focusing on authentication and MySQL database management.
- Worked directly with the CEO to maximize conversion rates and minimize the duration of placing an order.

### UNT School of Engineering

Summer 2015

#### Research Intern

- Published two papers on the quantitative relationship between toughness and brittleness of polymers.
- Wrote Java program to analyze sliding wear simulation, resulting in a 100x speed improvement over existing analysis methods.
- Conducted molecular dynamics simulation on high-density polyethylene using C++ software.

### The Argan Tree

Summer 2014

#### Data Analyst & Developer Intern

- Analyzed consumer data to compile a risk management report assessing business expansion to other areas of Morocco.
- Converted entire website to automatically detect and optimize displays for mobile phones.
- Aggregated survey findings to evaluate the impact of cooperatives on social and institutional trust.

## 🔬 RESEARCH

### Google Quantum AI Lab (Summer 2016)

- Researching under Dr. Pedram Roushan of the UCSB Martinis Group to develop an algorithm for calculating the evolution of random quantum states.
- Using Python to run computational simulations of Hamiltonian spectroscopy and Fourier transform.

## 🔧 PROJECTS

### MediBot

Voice-controlled delivery bot for use in clinics and hospitals. Winner of PennApps 2016 Embedded Hacks.

### Encore.ai

Generate new lyrics from your favorite old-school artists. Best Machine Learning Hack at HackMIT 2016.

### Leave No Trace

Data-driven iOS app that tracks energy conservation. Winner of Verizon App Challenge.

### FreezeRay

iOS offline wallet solution for bitcoin. Winner of BitHacks 2015.

## ☰ SKILLS

Node.js, React/Redux, Unity, C++, Rails, AWS, LAMP, Swift, Vim, Bash, LaTeX

## 🏆 AWARDS

PennApps Best Embedded Hack (2016)  
HackMIT Best Machine Learning Hack (2016)  
Verizon Innovative App Challenge (2014)  
BitHack Winner (2015)  
MIT Zero Robotics (2014)