

# SAMEER KHOJA

full-stack engineer and open-source enthusiast

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## 🎓 EDUCATION

**Cornell University** Graduating May 2019  
BS, Computer Science GPA: 3.9  
BS, Operations Research and Information Engineering

**Texas Academy of Mathematics and Science** Graduated May 2016  
Dual Enrollment Program  
University of North Texas 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)