# Sameer Khoja

full-stack engineer and open-source enthusiast

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 samkho10    🐦 @samkho10

## 🎓 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

   President's List

Dual Enrollment Program
University of North Texas

## 💼 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 paper on molecular dynamics simulation on high-density polyethylene using C++ software to determine causes of friction and wear.
- Published paper on the quantitative relationship between toughness and brittleness for polymers and metals.

**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
Remote Research Assistant (Fall 2016)

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

## ☰ SKILLS

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

## 🔧 PROJECTS

**Felony**
React/Redux PGP Keychain for the modern web. Over 3,000 stars on GitHub.

**Leave No Trace**
Data-driven iOS app that promotes energy conservation. Received $20,000 grant from Verizon Foundation to implement app.

**Spark**
iOS app that uses the Braintree API to foster crowdfunding for a cause.

**FreezeRay**
iOS app that uses the Chain API to take bitcoin wallets completely offline and safe from cyberhacks.

## 🏆 AWARDS

- Verizon Innovative App Challenge (2014)
- BitHack Winner (2015)
- MIT Zero Robotics (2014)
- Global Cooperative Challenge Finalist (2014)
- Eagle Scout (2012)