







SAMEER KHOJA

full-stack engineer and open-source enthusiast

 <http://sameerkhoja.com>
 sk2327@cornell.edu
 [samkho10](#)

 [@sameerkhoja](#)
 [/in/sameerkhoja](#)
 (972) 345-5371

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)

- Researched under Dr. Pedram Roushan of the UCSB Martinis Group to develop an algorithm for calculating the evolution of random quantum states.
- Used MATLAB 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

Java, Node.js, React/Redux, Unity, AWS,
LAMP, Swift, MATLAB

AWARDS

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