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　　Graduated May 2016
Science　　　　President's List
Dual Enrollment Program
University of North Texas

💼 WORK EXPERIENCE

CUAir, Cornell
Fall 2016

Distributed Systems Developer
- Developing a camera control interface for a unmanned aerial vehicle (UAV).
- Working with Java's Play framework to devleop a distributed network of web application servers.
- Using Python's Flask framework along with the FlyCapture SDK to develop a plane server.

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.

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)