

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 paper 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 XIV Embedded Hacks.

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

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 XIV Embedded Hacks (2016)
Verizon Innovative App Challenge (2014)
BitHack Winner (2015)
MIT Zero Robotics (2014)
Global Cooperative Challenge Finalist (2014)