Sameer Khoja

full-stack engineer and open-source enthusiast

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EDUCATION

Cornell University — Graduating May 2019
GPA: 3.9
BS, Computer Science
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

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.

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.

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.

SKILLS

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

AWARDS

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