

# Samiur Khan

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## Education

**University of Michigan College of Engineering, Ann Arbor**

*Class of 2020*

- B.S.E. in Computer Science, Minor in Mathematics

## Professional Experience

**Google – Street View Infrastructure – Mountain View, CA**

*May 2017 - August 2017*

Engineering Practicum Intern

- Working with a team to prototype an internal tool that showed animations of Google Street View data.
- Designed and implemented a video encoder using FFmpeg that can encode MP4s, FLVs, and WebM videos. Worked with a team to incorporate CPU benchmarking tests to verify that it was servable over HTTP requests.
- Deployed the video recorder with a C++ based HTTP server that can handle video generation for different input requests.

**Google Computer Science Summer Institute – New York, NY**

*July 2016 - August 2016*

Participant

- Worked with a team of three to build a web application that helps users locate hang out spots that are geographically equidistant from invited colleagues. Designed the algorithm to calculate a center latitude and longitude.
- Responsible for designing and implementing a non-relational database scheme with Google Datastore and designing the handlers with the webapp2 Python API.

## Campus Involvement

**University of Michigan Electrical Engineering and Computer Science Department**

*June 2017 - Present*

**Incoming Teaching Assistant for EECS 398 - Computing and Tools for Computer Scientists**

- Class teaches how to learn about and how to use the various tools used by computer scientists (like git, linux, debuggers, virtual file systems, linters, etc...).
- Maintained the course site (c4cs.github.io), and worked with a team to run office hours to help students with weekly assignments.

**Accelerate CS**

*September 2016 - Present*

- Volunteer to teach Python and computer science to local Ann Arbor schools.
- Worked with four others to design a curriculum for a class of 30 middle school students.

## Personal Projects

**Condit**

*August 2017 - Present*

- C++ object for holding information about the status of binaries. Working with a team to expand the tool to support programming languages and to expand its use. Learn more: [conditproject.github.io](https://conditproject.github.io)

**Evolve**

*September 2017 - Present*

- Tool to help scientists experiment with different evolutionary and genetic algorithms.

**Hand Gesture Recognizer**

*August 2016*

- Worked with a team to build a web application that used Clarifai image recognition API to recognize hand gestures.
- Used Javascript API to pass images to the neural network for training.

## Awards

- Gates Millennium Scholar, merit and needs based scholarship granted to less than 2% of around 55,000.
- Shipman Scholar, merit scholarship granted to less than 1% of 15862 incoming students.
- Most Technically Advanced Feature, awarded by Google for Getventures.

## Skills & Interests

**Languages and Frameworks:** C++, Protocol Buffers, Python, MATLAB, HTML/CSS, JavaScript, bash

**Skills:** Public speaking, communication, software documentation, API design, software testing, computer architecture

**Interests & Hobbies:** I love non-fiction (particularly history) books. I am also an amateur road cyclist.