Samiur Khan

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Education

University of Michigan College of Engineering, Ann Arbor *Class of 2020*

- B.S.E. in Computer Science and 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. W 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

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 geographic equidistant from invited colleagues. Designed the algorithm to calculate a center latitude and latitude.
- Responsible for designing and implementing a non-relational database scheme with Google Datastore and desig handlers with the webapp2 Python API.

Campus Involvement

University of Michigan Electrical Engineering and Computer Science Department *June 2017 - Present*

Incoming Research Assistant

- Research focuses on applications of deep learning to computer vision and image processing problems.
- Uses MATLAB and Tensorflow to prototype various kinds of neural networks.

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…).

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

Numus *June 2017 - Present*

- Tensor processing library that can handle n-dimensional arrays written in C++

Condit *August 2017 - Present*

- C++ object for holding information about the status of binaries.

Hand Gesture Recognizer *August 2016*

- Worked with a team to build an 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, Tensorflow, HTML/CSS, JavaScript, bash
Skills: Public speaking, communication, software documentation, API design, software testing, computer architectur
Interests & Hobbies: Non-fiction reading, Cycling