SYED
TOUSIF
AHMED

- syed-ahmed.github.io
- linkedin.com/in/mrsyed
- github.com/syed-ahmed
- syed.ahmed.emails@gmail.com
- (206) 619 - 4542
- Available for full time positions starting June 2018. Specializing in Machine Learning and comfortable working with anything close to the Software/Hardware boundary.

EDUCATION

Rochester Institute of Technology, Rochester, NY
BS in Computer Engineering
Minor: Mathematics
Expected Graduation Date: May 2018

COURSES

Computer Science I & II, Applied Programming in C
Digital Systems Design I & II, Assembly Programming
Numerical Analysis, Machine Intelligence
Deep Learning

SKILLS

PROGRAMMING LANGUAGES
Proficient with: C/C++, Python, Java, VHDL, ARM Assembly
Familiar with: Swift, Verilog, PHP, JavaScript, MySQL, C#, Matlab, HTML, CSS

SOFTWARE AND DEVELOPMENT TOOLS
Proficient with: Tensorflow, IntelliJ IDEA, Eclipse, Android Studio, Git, CVS, Unity3D, XCode
Familiar with: CUDA, OpenGL, OpenCV, Vuforia, Wikitude, Cadence OrCAD, PSpice, Xilinx Vivado, Altera Quartus, Multisim, Torch, Caffe, React

OPERATING SYSTEMS
Proficient with: Linux, Mac OS, Windows

HARDWARE
Proficient with: Oscilloscope, Function Generator, Multimeter, Spectrum Analyzer, Breadboard, Soldering
Familiar with: Xilinx Nexys 3 FPGA Board, Beaglebone Black, Raspberry Pi, NVIDIA Jetson TX1

HONORS

NSF I-Corps Funding Recipient
Nominated for RIT Outstanding International Student Award 2015
RIT International Scholarship

LEADERSHIP

RIT ACM SIGCHI (Vice Chair) - 2015
RIT World Music Ensemble
Multidisciplinary Robotics Club (MDRC)
RIT Emerging Professionals Leadership Certificate
Volunteering at Mentaid and Hope Home Education Center – Calcutta, India
Peace Ambassador for APCC 2011 – Fukuoka, Japan

EXPERIENCE

(INCOMING) DEEP LEARNING SOFTWARE INTERN
NVIDIA | Santa Clara, CA
May 2017 - August 2017

RESEARCH ASSISTANT
Center on Access Technology, NTID, RIT | Rochester, NY
September 2016 - Present
- Develop research tools for Deaf/Hard of Hearing Access Technology research projects
- Technologies used: Android Development, Node.js

RESEARCH ASSISTANT
FETLab, GCCIS, RIT | Rochester, NY;
September 2015 - December 2015; August 2016 - Present
- Build an automatic speech recognition system that classifies sounds of actions on everyday objects. Research domain: Human Computer Interaction and Ubiquitous Computing
- Technologies used: Python, Tensorflow, Android, Scikit-Learn

DEEP LEARNING ENGINEERING INTERN
NextDroid (Startup) | Boston, MA
June 2016 - August 2016
- Wrote neural network models for road image segmentation for a semi-autonomous/self-driving car
- Wrote image segmentation web interface for mass data collection that decreased data collection cost by 60%
- Technologies used: Caffe, Tensorflow, Torch, CUDA, NVIDIA Jetson TX1, NVIDIA DRIVE PX, Python, C++, Lua

COMPUTER VISION DEVELOPER (Co-op)
Ahold USA | Quincy, MA
January 2016 - May 2016
- Used tensorflow and caffe to do transfer learning for product package recognition
- Developed an augmented reality iOS app that gives a location-aware shopping experience

COMPUTER VISION RESEARCH ASSISTANT
Discover Lab, School of Media Sciences, RIT | Rochester, NY
June 2015 - December 2015
- Developed, debugged, and optimized an augmented reality app, called RocreadAR for a research project aiming at integrating different media for publishing and communication
- Technologies used: OpenGL, OpenCV, Unity3D, Vuforia SDK, Wikitude SDK, Git, Android, iOS, Google Glass

SUPPLEMENTAL INSTRUCTION LEADER
Academic Support Center, RIT | Rochester, NY
January 2015 – May 2015
- Conducted an hour long study session twice a week, to guide students with historically difficult courses

PROJECTS

ONE SHOT LEARNING FOR ACOUSTIC RECOGNITION
2016 Western New York Image and Signal Processing Workshop
Poster presentation on using one shot learning for classifying sounds of different actions on a coffee machine, such as: pressing on/off switch, brew switch, steam switch etc.

OPEN SOURCE CONTRIBUTIONS IN DEEP LEARNING RESEARCH
TensorFlow - Solved bug in Android Demo. Issue #1371
TensorFlow - Implement Max Unpooling Op - Issue #2169
elab/Torch7-profiling -Solved bug-Commit #7fdb7af and #0e64c08
elab/ENet-Training - Improved code - Pull request #9

ARESUME
Access at Google Play Store: www.goo.gl/yUDUu9
An Augmented Reality android app that gives a fun and interactive resume reviewing experience. Made using Unity3D, Vuforia SDK, and Android Studio. This resume is augmented reality enabled!

CLICK WARS - RIT IOS APP CHALLENGE HACKATHON 2015
Access at: www.goo.gl/4qX6sA
A game based app called "Click-Wars" that uses face detection and bluetooth to connect multiple players to play a game of who can click each others face faster.

RESEARCH ON TRIAL DIVISION VS LUCAS-LEHMER ALGORITHM
Access at: www.goo.gl/ZoVC3h
Research question: Out of trial division algorithm for finding primes and Lucas-Lehmer algorithm for finding Mersenne primes, which algorithm would yield a big prime number faster?