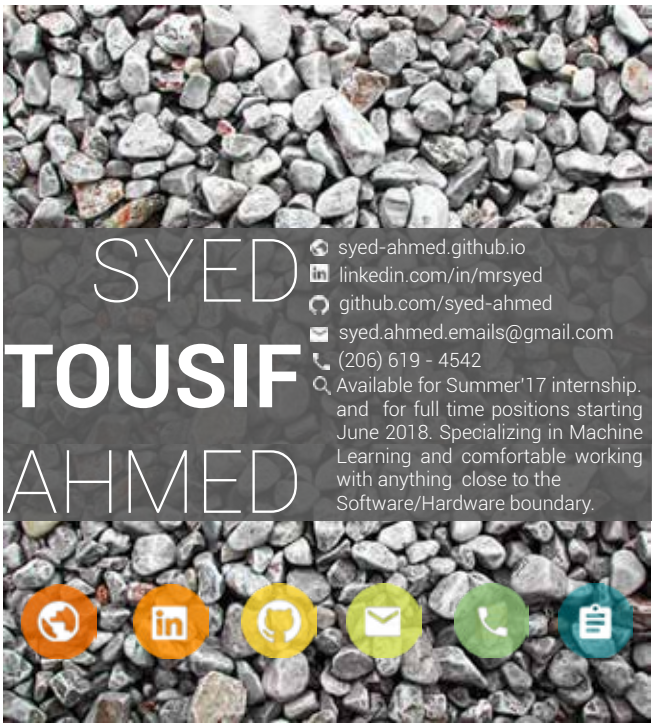

EDUCATION

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
Machine Intelligence
Convolutional Neural Networks for Image Recognition (Machine Intelligence Lab, RIT)

SKILLS

PROGRAMMING LANGUAGES

Proficient with: C/C++, Python, Java, VHDL
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

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

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, through the last day of classes, to guide students with historically difficult courses (courses with high rates of D, F and withdrawal)
- Engaged with faculty partner and devised SI session strategies using different learning techniques

PROJECTS

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?

PATTERNS IN COMPLEX NUMBERS
Access at: www.goo.gl/MgwgWS
Analyzed the patterns in the complex solutions of polynomial equations of n order and portrayed on the complex plane. Formed a conjecture involving regular polygons.