



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	<p>PROGRAMMING LANGUAGES</p> Proficient with: C++, Python, Java, VHDL Familiar with: Swift, Verilog, PHP, JavaScript, MySQL, C#, C, Matlab, HTML, CSS
	<p>SOFTWARE AND DEVELOPMENT TOOLS</p> 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
	<p>OPERATING SYSTEMS</p> Proficient with: Linux, Mac OS, Windows
	<p>HARDWARE</p> 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 Mentaids 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

- ④ Develop research tools for Deaf/Hard of Hearing Access Technology research projects
- ④ Technologies used: Android Development, Node.js

RESEARCH ASSISTANT

FETLab, GCCIS, RIT | Rochester, NY;

September 2015 - December 2015; August 2016 - Present

- ④ Build an automatic speech recognition system that classifies sounds of actions on everyday objects. Research domain: Human Computer Interaction and Ubiquitous Computing
- ④ Technologies used: Python, Tensorflow, Android, Scikit-Learn

DEEP LEARNING ENGINEERING INTERN

NextDroid (Startup) | Boston, MA

June 2016 - August 2016

- ④ Wrote neural network models for road image segmentation for a semi-autonomous/self-driving car
- ④ Wrote image segmentation web interface for mass data collection that decreased data collection cost by 60%
- ④ 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

- ④ Used tensorflow and caffe to do transfer learning for product package recognition
- ④ 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

- ④ Developed, debugged, and optimized an augmented reality app, called RocreadAR for a research project aiming at integrating different media for publishing and communication.
- ④ 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

- ④ 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)
- ④ Engaged with faculty partner and devised SI session strategies using different learning techniques

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.