Zander Blasingame

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EDUCATION

CLARKSON UNIVERSITY
BSc. in Electrical and Computer Engineering (Honors)
Expected May 2019 | Potsdam, NY
Dept. of Electr. & Comp. Engineering
President's List All Semesters
Cum. GPA: 3.88 / 4.0

APPLICABLE SKILLS

PROGRAMMING
Over 5000 lines:
Java • JavaScript • Python • LaTeX
Over 1000 lines:
C • Bash • Matlab • Android
Familiar:
Assembly • C++ • VHDL • CSS
HTML5

OPERATING SYSTEMS
Linux/Unix • Windows • Android

SOFTWARE
Autodesk Inventor • Eclipse with ADT
TensorFlow • Intellij • Vim • Git
Node.js • LaTeX• Bootstrap • OpenGL
Visual Studio • Caffe • PyCharm

HARDWARE
Arduino • Intel Galileo • Raspberry Pi
Nvidia Jetson TK1 • Nvidia Jetson TX1

COURSEWORK

UNDERGRAD
EE 324 Dynamical Systems
EE 264 Intro to Digital Design
EE 462 Software System Architecture
CS 444 Operating Systems
Current
EE 221 Linear Circuits
EE 311 Electrical Engineering Lab II
EE 341 Microelectronics
EE 321 Systems and Signal Processing
EE 365 Adv. Digital Circuit Design
EE 363 Software Comp. & Generic Prog.
EE 491 Directed Study in Computer Eng.

EXTRACURRICULARS

CFC on Campus Ministry
Vice Chair of the Ballroom Dance Club
President of the Swing Dance Club
InterVaristy Christians

EXPERIENCE

AIR FORCE RESEARCH LAB | Griffiss Institute Engineering Intern
High Performance Computing, May - August 2016 | Rome, NY
- Generated metastatistics for several machine learning datasets
- Analyzed and read current literature in the field of machine learning
- Designed an Android application to display the results of sentiment analysis
- Worked with TensorFlow to design basic classifiers

UNH INTEROPERABILITY LAB | Software Engineering Intern
IPv6 and Home Networking Consortia, July - August 2014 | Durham, NH
- Designed a custom Linux image for embedded systems with a C/C++ cross compiler toolchain utilizing the Yocto Project
- Ported existing source code to embedded systems utilizing the C/C++ cross compiler toolchain to build binaries for that architecture
- Created a web application using the Node.js framework capable of monitoring and maintaining server processes

RESEARCH

CLARKSON UNIVERSITY | Research Assistant
Dept. of Electr. & Comp. Engineering, Summer 2015 - Present | Potsdam, NY
- Researched GPU optimization methods for deep learning algorithms
- Worked with open source frameworks for biometrics
- Worked with TensorFlow and Caffe
- Implemented an autoencoder to act unary classifier to detect malicious hardware requests using TensorFlow
- Implemented both an Long Short-Term Memory Recurrent Neural Network and Stacked Denoising Autoencoder to classify hardware requests based on a time series of hardware performance indicators

LEADERSHIP

MA 232 DIFFERENTIAL EQUATIONS | Teaching Assistant
Clarkson University, Fall 2016 - Present | Postdam, NY
- Reviewed and instructed students on topics related to differential equations
- Administered and graded quizzes for each recitation

HONORS PROGRAM | Peer Mentor
Clarkson University, Fall 2016 - Present | Potsdam, NY
- Mentored and encouraged incoming freshman in the Honors program
- Met with students to give advice on college and courses

EAST COAST SWING | President & Instructor
Clarkson University, Spring 2016 - Present | Potsdam, NY
- Taught East Coast Swing along with another student starting the Spring of 2016
- Planned lessons with another student to teach the club how to swing dance
- Organized club events and helped with outreach for the club

ACHIEVEMENTS AND AWARDS

2016 Awarded the Clarkson Presidential Scholar award
2015 Awarded the Clarkson University Achievement Award
2014 One of only 8 students chosen for an Internship at the UNH-IOL