Summary:

Senior level computer engineering student with strengths in mathematical based engineering from co-op experience in computational modeling interested in research and development. Currently conducting a six month co-op until January 2016.

Detailed Description:

Senior level computer engineering student currently researching the implementation of a plugin to interface with the MD-SAL layer of the OpenDaylight controller in the context of SDN and NFV for the purpose of Traffic Engineering and Traffic Measurement. Past developments have included, network traffic modeling as a set of Poisson processes with the aid of Mininet, as well as generating a network traffic map with the aid of REST API calls to the OpenDaylight controller.

Experience

Solutions Architect Co-op

MorphoTrust USA

July 2015 – Present (2 months) Billerica, MA

Solutions Architect Co-op

Research Assistant

Department of Electrical and Computer Engineering University of Massachusetts Lowell

November 2014 – July 2015 (9 months) Lowell, MA

Researched the implementation of a plugin for the OpenDaylight controller in the context of Software Defined Networking and Network Function Virtualization for the purpose of Traffic Engineering and Measurement.

Attended the Open Networking Summit in Santa Clara, CA in order to gain further knowledge about the current developments in SDN and NFV.

Grader

Department of Mathematics, UML

September 2014 – Present (1 year) Lowell, MA

Graded and edited over 300 exams per week for Calculus II and Management Calculus.
Entered grades for six courses and met with professors to review and evaluate student progress.

Computational Modeling and Analysis Co-op

Spectral Sciences, Inc.

January 2014 – June 2014 (6 months) Burlington, MA

Conducted a six month co-op at a research and development company specializing in spectral imaging instrumentation and processing for federal government clients.
Created a customized continuous integration environment suitable for validating changes to source code using Python and HTML
Derived a set of tolerance equations suitable for software testing based on the analysis of spectral data

Projects

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Complex Matrix Solver

June 2013

Program that calculates the solution to a complex system of up to four variables.

Boolean Calculator

June 2012

C program that accepts a boolean expression of up to four variables and outputs the truth table.

Definite Integral Calculator

December 2011

C program that calculates the integral of function to a precision specified by the user.

Subtractive Color Light Box

November 2011

Educational tool that demonstrates how to mix color from white light through the use of acetate filters.

Courses

University of Massachusetts Lowell

- Advanced Digital Systems
- Operating Systems
- Logic Design
- Applications Programming in C
- Applications Programming in C++
- Network Design
- Computer Architecture
- MIcroprocessors
- Computer Vision

Skills

- Python
- Linux
- Statistics
- Buildbot
- C
- C++
- Java
- Maven
- Apache Karaf
- Mininet
- NI Multisim
- Windows 7
- Windows Vista
- Windows XP
- Matplotlib
- Matlab
- Emacs
- LaTeX
- HTML
- Microsoft Word
- Microsoft Excel
- Photoshop
- Visual Arts

Education

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University of Massachusetts Lowell

Computer Engineering

2011 – 2015

Central Connecticut State University

Bachelor of Fine Arts (BFA), Illustration

1999 – 2004