Kento Okamoto

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Experience

Software Engineer, Arista Networks July 2017 - Present

- Led software support for five 720XP series PoE switch development by coordinating with cross-functional teams (manufacturing, test, hardware)
- Designed and implemented new CLI command displaying on-device FPGA information
- Created test infrastructure improvement for detecting product spontaneous reboots

Instructor, CSCI 261 Programming Concepts January 2017 - May 2017

- Taught introductory C++ concepts to 60 students
- Course includes Lectures, Exams, Homework, and extra help during office hours.

Automation Tools Developer Intern, Ricoh America May 2016 – August 2016

- Developed a brand new webtool for performance data analysis using ASP.NET MVC from the ground up
- Webtool provides 300% more control for customer over previous tool
- Changes to database are now automatically reflected on tool

Software Developer Intern, Gearzy May 2015 – May 2016

- Created desktop programs for custom SQL-based C++ class creation using QtCreator
- Run SQLite queries to access and manipulate a given database
- Parse and manipulate strings of incoming data using regular expressions

Projects

App Launch Inference August 2016 – August 2017

- Research security vulnerabilities by eavesdropping on app launch instances on Android devices
- Utilized scikit-learn to train and infer app network packets on each device
- Successfully inferred app launches with 90% or higher accuracy using Random Forest and SVM classifiers

Pool Table Recognition April 2016 – December 2016

- Created a program in OpenCV that will recognize a pool table and transform the table image to display a top-down perspective of the table using images provided by a smartphone

Senior Design: Hybrid Organic-Inorganic Perovskites for Solar Cells Aug 2014 – May 2015

- Carry out density function theory calculations for ground state properties using supercomputers
- Successfully calculated Perovskite structures using Lead Bromide based Formamidinium ions

Skills

- Technical: C++, C, Python, Shell, MatLab
- Tools: Git, Perforce, Docker, LaTeX
- Familiar libraries: OpenCV, OpenGL, Coreboot, OpenMPI

Taken Courses Include: Algorithms, Parallel Scientific Computing, Automata Theory, Human-Centered Robotics, Introduction to Cryptography, Operating Systems, Game Theory, Computer Vision

Education

Colorado School of Mines M.S. May 2017

Major: Computer Science

Colorado School of Mines B.S. May 2015

Major: Engineering Physics