Kento Okamoto

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https://github.com/Kentokamoto

Experience

Backend Engineer, Lithic August 2021 - Present
- Designed transaction reconciliation tool to correct ledger for cross-functional teams

Software Engineer, Splunk November 2020 - July 2021
- Designed solution to prevent dataloss observed on Splunk technical add-ons

Software Engineer, Arista Networks July 2017 - October 2020
- Led software validation support for five 720XP series PoE switch development by coordinating with cross-functional teams (manufacturing, test, hardware)
- Wrote OS firmware for initial board bringup
- Designed and wrote system software for 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 included Lectures, Exams, Homework, and extra help during office hours.

Automation Tools Developer Intern, Ricoh America May 2016 – August 2016
- Developed a full-stack web application for printer performance analysis using ASP.NET MVC
- Webtool provides 300% more control for customer over previous tool
- Increased code resilience to future SQL database changes

Software Developer Intern, Gearzy May 2015 – May 2016
- Created full-stack desktop application for custom SQL-based C++ object creation using QtCreator

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
- Built C++ program to detect pool tables from a smartphone image using OpenCV
- Final image displayed a top-down perspective of the table

Senior Design: Hybrid Organic-Inorganic Perovskites for Solar Cells Aug 2014 – May 2015
- Carried 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
- Libraries: OpenCV, OpenGL, Coreboot, OpenMPI

Education

Colorado School of Mines M.S. May 2017
Major: Computer Science

Colorado School of Mines B.S. May 2015
Major: Engineering Physics

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