

# Kento Okamoto

2036 Colony St. Unit 2  
Mountain View CA, 94043

oka.keno@gmail.com

(530)-219-5435

<https://github.com/Kentokamoto>

## EXPERIENCE

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### Software Engineer, Arista Networks

July 2017 - Present

- 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 includes 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

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### 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 displays a top-down perspective of the table

### 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

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- Technical: C++, C, Python, Shell, MatLab
- Tools: Git, Perforce, Docker, L<sup>A</sup>T<sub>E</sub>X
- Libraries: OpenCV, OpenGL, Coreboot, OpenMPI

## EDUCATION

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### Colorado School of Mines M.S.

May 2017

Major: Computer Science

### Colorado School of Mines B.S.

May 2015

Major: Engineering Physics

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