Kira Prabhu

Contact:
kmathias@google.com

Education

Carnegie Mellon University
B.S. Computer Science,
Minor in Computational Biology

Dean's List Fall 2015, Spring 2016, Spring 2017
GPA: 3.58

Governor Livingston HS
May 2014
GPA: 4.85/5.00
SAT: 2400

Skills

Python, C++, C, Java, Objective C, Go, Javascript, Cuda, Clojure, ClojureScript, PHP, HTML, PostgreSQL, Bash Shell, Perl,

Coursework

- Computer Vision
- Machine Learning
- Cloud Computing
- Security and Cryptography
- Distributed Systems
- Neural Computation
- Functional Programming
- Intro to Computational Biology
- Quantitative Cell and Molecular Biology Lab

Work Experience

Google, SWE, Computer Vision Research & Development

October 2019-present

- Augmented reality team working on 3D human capture and rendering
- Computer vision research including descriptor development, multi-view stereo optimization, and lighting assessment
- Utilized C++, Python, and Cuda

Google, Site Reliablitiy Engineer, Ads Build

May 2018-October 2019

- Managed throughput, latency, and reliability of several ads serving pipelines
- Performed optimization and automation of resource allocation and usage

Google, SRE Internship, Cloud Performance Monitoring

San Francisco, California | May-Aug 2017

- Full stack design and implementation of 'SmartSort', an outage management tool feature that suggests services associated with a user in order to improve the user experience and efficiency of outage reporting
- Utilized Go, Spanner, gRPC, Polymer JS, HTML

Zillow, SWE Internship, iOS Team

Seattle, Washington | May-Aug 2016

- Launched new 'Collections' and video walkthrough features for Apple TV, created a new 'Filters' interface, and redesigned the app home page
- Utilized XCode and Objective C with Reactive Cocoa and MVC paradigms

Kirasystems, Inc. (Formerly DiligenceEngine), SWE Internship

Toronto, Ontario, Canada | May-Aug 2015

- Company profile: Machine learning contract analysis. Customers are major corporations. Over $100B transaction value processed to date.
- Designed and developed interactive visualizations for machine learning clustering data and governing law contract clauses using the D3 library
- Utilized Clojure, Clojurescript, Om, PostgreSQL, Javascript, HTML, CSS

Selected Projects

Research with Systems Biology Group | *Jan 2017 - May 2017*

- Automated retrieval of single-cell RNA expression data and extraction of source cell type information in order to start a user-friendly scRNA database, and develop a cell type classifier for novel sequence data

Distributed Collage Generator with Two-Phase Commit | *April 2017*

- A photo collage generator implemented in Java using distributed transactions and two-phase commit to achieve collage consensus from all contributors

"Bag of Words" Object Classification | *February 2016*

- Created a scene classifier by constructing a dictionary of visual words, using it to develop a recognition system, and evaluating the system on test image