

Maxwell C. Lutton

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Objective:

To obtain a software engineering internship.

Education:

University of California, Los Angeles

Bachelor of Science, Computer Science and Engineering

Los Angeles, CA

expected June, 2018

University of Cambridge

Pembroke-Kings Programme

Cambridge, UK

Summer 2015

Study Abroad

Projects and Experience

Ozcan Research Group

Working as an undergraduate researcher to produce software solutions for collecting, analyzing, and presenting data from air quality sensing device.

The Mercurial Concierge

Utilized the Yelp and Android Location APIs to build an application in a team of four that helps ambivalent diners find their next restaurant.. (Java)

Boulder Bash

Created a game in which a player-controlled man maneuvers through a two-dimensional maze, pushing boulders and blasting 3 types of AI-controlled, automatically respawning enemies. Game utilizes principles of object oriented design with class polymorphism. (C++)

Network I/O Lab

Built a multi-process telnet-like client and server. Utilized multi-threading and TCP sockets. (C)

Smashing Lab

Built an exploit that utilizes buffer overflow vulnerability in HTTPD server to remove a specific file from a user's directory. (C)

Skills:

C/C++, GDB Debugging, Bash shell scripting

Familiar: OpenMP, Git, IA32/x86-64 assembly, HTML & CSS, Python, JavaScript, Java, WebGL

Relevant Coursework:

CS 31/32 –Introduction to Computer Science I/II

CS M117—Computer Networks: Physical Layer

CS 33 –Introduction to Computer Organization

CS 174A—Introduction to Computer Graphics

CS 35L –Software Construction Laboratory

CS 111—Operating Systems Principles

6.034—Artificial Intelligence (MIT OCW)

Honors and Extra-curriculars

Alpha Lambda Delta & Phi Eta Sigma Honor Societies member

Spring 2015-present

Pembroke-Kings Programme Student Ambassador

Summer 2015-present

IEEE member

Fall 2015-present

Grand Challenges Undergraduate Research Scholar

Fall 2016-present

MentorSEAS Engineering Mentor

Fall 2016-present