

Ran Gross

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I am interested in a summer internship in computer engineering or computer science related fields. I am planning to continue on to graduate school starting fall 2016.

Education

University of California Los Angeles (UCLA)- Los Angeles, CA Expected Graduation-March 2016

- Candidate for Bsc in Computer Science & Engineering, with Electrical Engineering tech-breath
- Current GPA: 3.95/4.0

Skills

- Programming: C, C++, perl, matlab, OCaml, python, Verilog, prolog, Java, MIPS (assembly). Familiar with Linux OS.
- Coursework taken: Operating Systems Principles, Computer Network Fundamentals, Computer Organization, Logic Design of Digital Systems, Systems & Signals, Engineering Electromagnetics, Circuit Analysis II, Digital Signal Processing, Probability for EE.
- Languages: Fluent in English and Hebrew and know the basics of Spanish

Experience

VAST LAB - UCLA – Research Participant

September 2015- Now

- Worked on acceleration the DNA sequencing pipeline: exploration of ways to accelerate the indel realignment stage, which is a key component in the pipeline.

MARS LAB - UCLA – Research Participant

July-September 2015

- Worked on approximate computing, extracted code from Box2d physics engine in order to be used for testing the approximation algorithm.

EMC-Irvine, CA: Software Engineer intern

July-September 2013 & 2014

- 2013: wrote test codes for the Avamar backup product using Perl and C++ and debugged Avamar.
- 2014: setup a testing environment for my team to work with and wrote some regression testing for my assigned team.

Projects

- **Cat & Mouse Mobile App:** created a mobile game app for a cat & mouse like game with a group incorporating Bluetooth connection between devices as well as a client-server network. (used android studio and java)
- **Smart Lock Design:** went through the steps of the conceptual design for the theoretical production of a smart lock in a group.
- **VR game:** creating a virtual reality game using the unreal engine and the oculus rift and hand tracking.
- **Position Mapper:** wrote a Verilog program to map a 3D position in space to different colors on a screen

Volunteer/Activities/Awards

Awards

- UCLA Dean's honor List in all quarters of 2013, 2014, 2015

Honor Societies

- Member of HKN, TBP, and UPE

Leadership experience- Israeli Scouts of Orange County

2009-2012

- Acted as youth counselor and planner for the Israeli scouts and a summer camp.

IEEE NATCAR Project

- Working on the NATCAR project with the IEEE (building an automatic car that follows a white strip/wire across any path given)

Scuba Diving

- Certificated for open sea scuba diving

Robotics Club

2010-2012

- Programmed and built a robot to participate in the annual First Robotics Competition

Note: I am a US citizen.