

Vivek Krishnan

WORK EXPERIENCE

MAY 2013 – SEPTEMBER 2013

Junior Specialist for CECS at UC Irvine, Irvine

Developed a cross-browser benchmark for testing WebRTC performance for video, audio, and data calls.

Worked in the research group of Professor Alex Veidenbaum at UC Irvine researching performance bottlenecks for mobile devices connected to WLANs and possible optimizations for Javascript based applications on mobile devices. Finally, tested WebRTC performance on Intel Atom chips vs other mobile processors. Implemented the webserver using the Socket.io over Node.js framework.

Benchmark at : <http://core7.ics.uci.edu>

SEPTEMBER 2012 – DECEMBER 2012

Research Intern at CMU, Pittsburgh

Worked for the Platypus Research group at CMU with Prof. Paul Scerri. Helped test swarms robotic boats intended as first responders in disaster zones.

Current home of Platypus: <http://www.senseplatypus.com/>

JUNE 2011 – OCT 2011

Research Intern at U.C. Irvine, Irvine

Worked in the lab of Professor Asantha Cooray at UC Irvine. Compared different image processing algorithms using CANDELS data from the Spitzer space telescope. Programmed in Interactive Data Language in order to write and debug a program used to mosaic and process overlapping photos.

OUTSIDE EXPERIENCE

JANUARY 2013

TartanHacks 2013

Participated in a 1-day hackathon and created an application called Code Learning. The intention of our application was to test the possible application of language learning software techniques to programming languages.

Git Repo : <https://github.com/jmichala/glowing-sansa>

SEPTEMBER 2007 – MAY 2012

Boy Scouts of America

Achieved the rank of Eagle Scout after leading a 400-hour construction project that was donated to a local afterschool program. As Senior Patrol Leader, oversaw weekly troop meetings, organized troop fundraising events, and led troop trips to locations such as Lake Powell and Mount Whitney.



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<http://vrkrishn.github.io>

GOAL

I love using technology to build tools that solve real life problem. For me, the most interesting aspect of computer science is finding real applications for theoretical ideas and new technologies discussed at my school.

EDUCATION

2012 – PRESENT

Bachelor of Science

ELECTRICAL AND COMPUTER ENGINEERING

Carnegie Mellon University

GPA: 3.75 / 4.00

RELEVANT COURSEWORK

Fall 2013

15-251

GREAT THEORETICAL IDEAS IN COMP.SCI

15-150

FUNCTIONAL PROGRAMMING

15-213

INTO TO COMPUTER SYSTEMS

36-217

PROBABILITY AND RANDOM PROCESSES

Spring 2013

15-122

PRINCIPLES OF IMPERATIVE COMPUTATION

21-241

MATRICES AND LINEAR TRANSFORMATIONS

Fall 2012

18-100

INTO TO ELEC. AND COMP. ENGINEERING

AWARDS AND ACHIEVEMENTS

2012

National Merit Scholar

The Boeing Company Corporate Scholarship

COMPUTER SKILLS

Basic Knowledge SML

Intermediate Knowledge Android/Java, \LaTeX ,
SOCKET.IO, Node.js,

In-depth Knowledge C Data Structures,
JAVASCRIPT, WebRTC,
PYTHON, HTML