Ajay Gopinath

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Experience

June 2016 - September 2016   San Diego, CA

Engineering Intern   Qualcomm Technologies, Inc.

Developed custom computer vision-focused automation tools as part of the multimedia R&D team

- Used computer vision and image processing techniques in MATLAB to automate the process of camera calibration
- Fully automated a previously-manual workflow, saving tens of man hours of work

August 2013 - July 2015   Cupertino, CA

Systems Architect   Learn To Be Foundation

Deployed and maintained LTB's web-conferencing platform, which services 50+ e-tutoring sessions per day

- Administrate network/disk activity to maintain QoS
- Use Dropbox API for persistence across networks
- Stress test production servers to mimic network load during peak hours

June 2013 - June 2015   Los Angeles, CA

Research Intern   The Rowat Lab, UCLA

Wrote high-performance MATLAB code to facilitate lab workflow by analyzing videos of microfluidics.

- Worked with graduate students and postdocs to integrate manual processes with software workflow
- Used image processing libraries and computer vision to enable high-throughput processing of cell videos
- Co-authored scientific paper

November 2012 - January 2013   Cupertino, CA

Architect and Developer

Developed *Looped for School Loop*, an Android mobile app.

- Developed with Android SDK to facilitate use of the School Loop web portal for students and parents
- 1000+ downloads in ~5 weeks thru word-of-mouth
- Responded to user feedback/bug reports

June 2012 - August 2012   Cupertino, CA

Software Architect Intern   Learn To Be Foundation

Developed and delivered a web-conferencing platform to handle LTB's e-tutoring for underprivileged K-12 students.

- Wrote 50+ pg. design specification prior to starting
- Wrote production-grade code for a Flash/AS3 frontend and Java backend (red5 server) passing code reviews

Education

September 2015 - June 2019 (expected)

University of California at San Diego

- Pursuing a **B.S. in Computer Science**

August 2011 - June 2015

Monta Vista High School

Skills & Interests

Languages

Skilled: Java, MATLAB, Flash/AS3
Proficient: Javascript, HTML/CSS
Prior experience: C, R

Platforms/Tools

Git, Express.js, Java Spring, Unix, Big Blue Button, Android SDK, MATLAB

Activities and Honors

UCSD Jacobs School Scholarship (2015)

- Four-year merit scholarship awarded to approx. 10 out of ~19,000 students every year in the Jacobs School of Engineering
- Covers full cost of attendance at UCSD
- Includes UCSD Regents Scholarship

HackUCSC Hackathon

- Top 10 Finals qualifying app **(2014)**

Synopsys SV Science & Tech Championship

- 4th place Honorable Mention in Computers/Mathematics **(2013, 2014)**

Publications

The physical origins of transit time measurements for rapid, single cell mechanotyping. Nyberg KD, Scott MB, Bruce SL, Gopinath AB, Bikos D, Mason TG, Kim JW, Choi HS, Rowat AC (2016) Lab Chip. DOI: 10.1039/C6LC00169F