
EDUCATION

MS, COMPUTER SCIENCE

JUNE 2016

- ▶ University of California, San Diego; La Jolla, CA
- ▶ Thesis: Understanding the Language of the Eye - Detecting and Identifying Eye Events in Real Time Via Electrooculography
- ▶ Advisor: Dr. Jim Hollan

BSE, COMPUTER SYSTEMS ENGINEERING

MAY 2014

- ▶ Arizona State University; Tempe, AZ
- ▶ Summa Cum Laude
- ▶ GPA: 4.0 out of 4.0

HIGH SCHOOL DIPLOMA

MAY 2010

- ▶ Corona del Sol High School; Tempe, AZ
 - ▶ Class Standing: 1 out of 699
 - ▶ GPA: 3.96 out of 4.00
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WORK AND RESEARCH EXPERIENCE

FACEBOOK, INC: SOFTWARE ENGINEERING INTERN

JUNE - SEP. 2015

- ▶ Built a platform to make IoT devices more accessible to consumers
- ▶ Implemented a hardware translation layer that allows third party devices to interface with Facebook APIs
- ▶ Worked under the direction of George Yakovlev in the Internet.org Connectivity Lab's New Technology Team

UNIVERSITY OF CALIFORNIA, SAN DIEGO: RESEARCH ASSISTANT

MAR. 2015 - JUNE 2016

- ▶ Researched how to optimize digital workflows by helping people resume unfinished tasks
- ▶ Built a system that tracks, curates, and visualizes a person's computer activity
- ▶ Worked under the direction of Dr. Jim Hollan in the UCSD Design Lab

NOTEBOWL, LLC: SENIOR SOFTWARE ENGINEER

OCT. 2013 - MAY 2016

- ▶ Managed the development team of NoteBowl, a web-based campus life solution
- ▶ Implemented REST-based backend features in PHP using the Laravel framework
- ▶ Designed and created frontend features using semantic HTML, CSS, and AngularJS

TIVO, INC: HARDWARE DEVELOPER INTERN

JUNE - SEP. 2013

- ▶ Worked on an embedded audio-splitting module controlled by an ARM processor
- ▶ Integrated on-board chips using I2C communication modules
- ▶ Worked under the direction of Kurt Heaton, Vice President of Platform Engineering at TiVo

MIT MEDIA LAB: SOFTWARE DEVELOPER INTERN

JUNE - AUG. 2012

- ▶ Worked on the Dog Programming Language: A language to facilitate building Web-based applications
 - ▶ Implemented an administrative panel UI for managing deployed Dog applications
 - ▶ Assisted in developing a strategic vision for the project and the design of the language architecture
 - ▶ Worked under the direction of Dr. Sep Kamvar at the MIT Media Lab's Social Computing Lab
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PATENTS AND PUBLICATIONS

- ▶ **Ahmad, R.**, "Understanding the Language of the Eye: Detecting and Identifying Eye Events in Real Time via Electrooculography." Thesis, University of California, San Diego, 2016.
 - ▶ **Co-Inventor** on patent "Managing a Device Cloud." Facebook, 2015.
 - ▶ **Ahmad, R.**, Santos, V.J. "Design and programming of a virtual haptic environment for studying grasp of fragile objects." Fulton Undergraduate Research Symposium, Arizona State University, Tempe, AZ, April 13, 2012.
 - ▶ **Ahmad, R.**, Santos, V.J. "Programming of a Phantom haptic device for studies on human and robotic grip reflexes." Fulton Undergraduate Research Symposium, Arizona State University, Tempe, AZ, Nov. 18, 2011.
 - ▶ **Ahmad, R.**, Santos, V.J. "Kinematics of the human hand during precision grasp responses to perturbations." Fulton Undergraduate Research Symposium, Arizona State University, Tempe, AZ, April 22, 2011.
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TECHNICAL SKILLS

- ▶ Programming Languages: C, C++, Java, PHP, Ruby, Shell Scripting
 - ▶ Web Technologies: CSS3, HTML5, Javascript, jQuery, Laravel, Rails, Sinatra, NodeJS, JSON, XML, REST
 - ▶ Software Systems: PostgreSQL, MySQL, SQLite, Git, Agile Development, Travis CI, Vagrant
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PAST PROJECTS

EDUCATIONAL ROBOT FOR INNOVATION AND CREATION (eROBOTIC PLATFORM)

- ▶ Created an educational platform meant to teach students fundamental programming concepts using a web-based programming application and a robot controlled by the application
 - ▶ Built multi-process Java application which controlled a web-connected robot
 - ▶ Implemented a UART module for controlling peripheral hardware devices and sensors via a Java API
 - ▶ Designed a networking interface that would allow for real-time reprogramming of robot execution
 - ▶ Received 1st Prize at the 2014 Intel Embedded System Design Contest
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AWARDS & HONORS

- ▶ Intel Embedded Systems Design Contest - First Prize - International July 2014
- ▶ Arizona State University Dean's List Fall 2010 - Spring 2014
- ▶ Arizona State University New American University Presidential Scholar May 2010