BRIAN Y. KIM

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Objective: To obtain an internship or research position that allows me to enjoy create and contribute to innovative technologies and science while helping as many people as I can.

Education

B.S. Computer Engineering/Computer Science **GPA 3.97**
University of Southern California – Presidential and Gregory Scholar **May 2016**

Troy High School, Fullerton, CA, IB Diploma **GPA 4.7, SAT: 2380**

Work Experience

Course Producer / Undergraduate Teaching Assistant
USC Computer Science Department – CS 103 August 2014 – Present
- Mentor and grade USC's Intro to Computer Science students during lab and office hours

Google Engineering Intern
Contextual Voice Search Team May 2014 – August 2014
- Worked with Natural Language Processing framework to write custom grammars to trigger specific non-search actions based on user queries
- Designed and implemented a new search result return system for contextual queries with 40% of previous latency (2.5x speed increase).

Researcher
University of Southern California – Interaction Lab September 2013 -Present
- Conducts experiment and designs algorithm to improve behavioral decision making for social robotics
- Extracts data and forms patterns from eye-gaze sensors, voice pitch sensor, and Kinect sensors

Software Engineer Intern
OneScreen – Tech Startup based in Irvine, CA Summer 2013
- Designed the architecture for/built the company’s developers and API documentation site using Jekyll
- Programmed customized plugins to instantly turn code comments into web documentation
- Experimented with graph databases to apply machine learning algorithms on company data

Research Assistant
Caltech Nanofabrication/Physics Group, California Institute of Technology Summer 2011
- Fabricated and designed semiconductor devices and integrated circuits from scratch using photolithography while experimenting in etching optimal gold contact patterns
- Collaborated with professors and graduate students to create a novel, affordable device to perform Polymerase Chain Reaction for faster, more accurate diagnoses for use in lesser

developed regions
- Helped program the smart phone app to control the device

Achievements

CalHacks Top 10 Hack, Most Fun Hack, and Major League Hacking Best Myo Hack Winner for dual Myo armband augmented, real life Street Fighter

Google LA Video Hackathon 2013: Best Overall App/Wow Factor Winner, Team Captain and Founder (TVUS)

Presidential Award for Community Service

PennApps Jawbone Jambox Challenge Winner

Skills

Technology Skills: C++, Java, Ruby (Rails/Jekyll), Product Design/Management, Android, NodeJS, HTML/CSS, JavaScript, ROS, Jquery, Amazon AWS (S3/EC2), Raspberry Pi, Arduino, Python, Neo4j, Matlab, Ubuntu User, Machine Learning

Mile time: 5:15

Relevant Coursework: A.I., Data Structures, Algorithms, Computer Organization and Embedded Systems, Graduate Linear Algebra, Technical Entrepreneurship

Current Organizations

USC Hack Nights — Community Leader
ACM-Intercollegiate Programming Competition — USC Team Representative
USC Association of Computing Machinery (ACM) — Executive Board, Corporate Affairs Officer

Leadership

HackSC Large-scale West Coast Hackathon - www.hacksc.com — March/November 2014
Founder/Head Organizer
- Planned and executed overall vision for increased diversity, open collaboration, and mentorship for newer hackers
- Headed logistics management that worked with the University
- Helped secure over $40,000 total in fundraising from sponsors

FIRST Robotics — March 2010 – June 2012
Founder/President/Captain of Troy High School FIRST Robotics Competition Team 3952
Captain/Programming Head of FIRST Tech Challenge Team 542 at Whitney High School
- Won World Championship Judge's Award and multiple regional championships.