Samuel A. Hinshelwood Jr.

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Education

Stanford University, B.S. in Computer Science, concentration in Mechatronics & Human Computer Interaction   *June 2017*

Experience

Apple, Inc., *Mobile Systems QA Automation, Intern, Cupertino, CA*   *June 2016 – Sep 2016*

Develop a real-time Device Monitoring & Triage system: Test Launcher, Image Recognizer, and Web App
Train OpenCV Classifiers to recognize devices and test progress on-screen; auto-report results to Web App
Prototype device harnesses with CAD software, 3D print and assemble multi-tiered test racks
Develop and launch Web App (server, webpage) visualizing device test progress and image recognition
Automate scripts for launching device tests, collecting diagnostics, and reporting results to SQA team

Qualcomm, Inc., *Interim Engineering Intern, San Diego, CA*   *June 2015 – Aug 2015*

Developed RIDL diagnostic software features for Android devices, tailored to China OEMs
Researched framework for internal, automated device testing, provided next-steps consulting
Created threaded program for stress-testing diagnostic server

Stanford Residential Computing, *Resident Computing Consultant, Stanford, CA*   *Sept. 2015 – Present*

Teach Stanford CS courses on networking, security, and digital media
Manage residential network hardware, university registration databases, and computer cluster

Skills

Languages	Experience with: Swift, Python, C++, C, JavaScript, Arduino C, Java
Frameworks	OpenCV, MEAN Stack, iOS, Xcode, Git
Software	SolidWorks & other CAD, Adobe Creative Suite, MATLAB, LaTex, Fritzing
Personal	Project Design, Communication, Education

Projects

Rise App, Full Stack iOS (Swift) Engineer, Stanford University

Full stack development of the Rise iOS app (See it here!: bit.ly/29qUDbM). Designed UI/UX, developed backend with Google Firebase and Core Data. Performed A/B testing. Rise is a platform for crowdsourcing visual stories.

Haptic Touch Finger, *Project Manager, Hardware Engineer, Stanford, CA*   *April 2015*

Stanford HackOverflow Hackathon 1st place project. Invoked the ability to "feel" virtual objects using a Leap Motion Controller interfaced with Arduino and mini-buzzer motors via leap.js and JSON packages.

Automated Laser Turret, *Project Manager, Educator, Stanford, CA*   *Sept 2015*

Built laser-shooting bot "arm" with 3-axis motion using Arduino. Used for teaching introductory-level engineering workshops to lowerclassmen students in BYTES Program.

Object Avoiding Robot, *Individually Designed, Chicago, IL*   *August 2014*

Designed 2-wheeled, self driven bot that avoids objects using Arduino

Gyroscopic Wii Remote Mockup, *Individually Designed, Chicago, IL*   *January 2015*
Designed IR-Bluetooth-integrated device that utilizes gyroscopic feedback and transmits data

Awards & Organizations

BYTES Program, *Stanford Service Organization of the Year, 2016*   *Dec. 2014 – June 2016*

Founder of BYTES Engineering-Service Projects Program within Society of Black Scientists and Engineers
Taught technical workshops covering engineering fundamentals. Fund & support student-designed projects