Samuel A. Hinshelwood Jr.

samhinsh@stanford.edu | samhinshelwood.com linkedin.com/in/samhinsh | 708.439.4869

Education

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

April 2018

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 2 & 3, Python, C++, C, JavaScript, Arduino C, Java

Frameworks CocoaPods, OpenCV, MEAN Stack, iOS 10, 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