

2156 Grove Cir W, Apt 2

Boulder, CO 80302

☎ (303) 243-2881

✉ Shen.Huang@Colorado.edu

📧 alwa.info

Shen Huang

Computer Skills

Languages: Python, JavaScript, C/C++, Java, Mathematica, Matlab

Experience

- January 2013 – Present **Android Frameworks Engineer, Google**, Mountain View, CA.
- Maintainer of Android input subsystem.
 - Spearheaded game controller standardization efforts for the Android platform and optimized the gamepad input path (63% less latency on average).
 - Was the lead platform engineer on the Nexus 9 keyboard and added input support for the Always on Display functionality of the Nexus 6.
 - Developed the MediaProjection APIs.
 - Rewrote the autobrightness algorithm in Android L.
 - Member of the Android API Council.
- Summer 2012 **Software Engineering Intern, Google**, Mountain View, CA.
- Rewrote Android Virtual Device (AVD) creation and management tools to focus on physical device specifications rather than the emulator's implementation details, allowing developers to create AVDs based on existing, real-world devices.
- Fall 2011 **Senior Design Team Lead, Johns Hopkins University Applied Physics Lab**.
- Developed a library for seamlessly interacting with Flicker, a project that allows for running trusted code modules on top of an extremely small trusted computing base.
 - Implemented modules that wrap Intel's Trusted Platform Module's sealing and unsealing functionality.
 - Developed modules that implement RSA and a corresponding arbitrary precision math library which do not depend on libc.
- Summer 2011 **Technical Solutions Engineering Intern, Google**, Mountain View, CA.
- Extracted ChimpChat, a Java library for interfacing with the Monkey tool, from MonkeyRunner.
 - Added view introspection functionality to Monkey, ChimpChat and MonkeyRunner.
 - Worked on an SFTP server backed by Google technologies and infrastructure, improving read performance by 4x and implementing proper access control.
- May 2010 – January 2011 **Research Professional, Dr. Jiang, NCSU**, Raleigh, NC.
- Developed a framework to interpose advertisement's interaction with webpages.

Education

- Fall 2016 - **Computer Science, University of Colorado Boulder**, Boulder, CO.
- Fall 2012 - Summer 2016 **Computer Science, Nanjing University of Science & Technology, Nanjing, China**, Overall GPA: 3.6.
CS Majors GPA: 3.6 Rank: 5%

Extra

- Contributor to open source projects - see <https://github.com/LichAmnesia>
- 5th Overall, Bronze Medal in the ACM - International Collegiate Programming Contest

- 3rd in the National Software Design Contest
- Outstanding Students Award in China
- Member of the GDG Sub