

Stanley Ho

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SUMMARY

- Demonstrated hands-on programming skills and knowledge in software development and in imaging processing/computer vision
- Strong problem-solving and analytical skills and with passions in software development
- Possess strong commitment to team environment and good communication skills

PROGRAMMING SKILLS

- **Languages:** C++, C, Matlab, JavaScript, Shell script, Python, Java
- **Technologies:** Intel IPP, AngularJS, OpenCV, Jenkins, Apache httpd

EXPERIENCE

- **Roche Tissue Diagnostics** Mountain View, CA
Software Engineer Nov 2013 - Present
 - **Detection:** Contributed to improve cell detection algorithm, which classifies cell types using deep learning, and integrated it to imaging platform.
 - **Image server:** Implemented giga-pixel microscopy image server in C++ using Apache httpd server to streamline workflow and to improve stability and performance by 50%.
 - **Platform:** Contributed to developing features in web-based image analysis platform in both front-end and back-end, which includes image viewer and analysis algorithms. The platform has helped to revolutionize tissue diagnostics and accelerated pharmaceutical development process.
 - **Image server:** Developed multi-channel gray scale image support to front-end client and to back-end image server written in Java.
 - **Segmentation:** Contributed to and prototyped semi-automatic interactive segmentation algorithm for real-time tissue segmentation tool in Matlab. Implemented it in C++ and integrated it to image analysis platform.
 - **Dev Environment:** Improved unit testing, continuous integration and deployment processes to streamline software development.
 - **Framework:** Contributed to developing features, maintained framework, unit testing and documentation of image analysis SDK in both C++ and Matlab.

EDUCATION

- **University of California, Santa Barbara** Santa Barbara, CA
Master of Science, Electrical and Computer Engineering; Award: Barpal Fellowship Jun. 2013
 - **Project:** Improved 3D image registration routine by aligning 2D image sequences written in C.
 - **Coursework:** Computer Vision, Pattern Recognition, Signal Processing, Digital Speech Processing.
- **National Chiao Tung University** Hsinchu, Taiwan
Bachelor of Science, Industrial Engineering Jun. 2010