

Stanley Ho

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SUMMARY

- Experienced software professional with hands-on programming skills
- Excellent skills in developing robust software and in communication
- Strong problem-solving and analytical skills

PROGRAMMING SKILLS

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

EXPERIENCE

- **Roche Tissue Diagnostics** Mountain View, CA
Software Engineer Nov 2013 - Present
 - **Microscopy Image server:** Implemented giga-pixel microscopy image server in C++ using Apache httpd server to streamline workflow and to improve scalability and performance by 50%.
 - **Detection:** Contributed to improve cell detection algorithm, which classifies cell types using deep learning, and integrated it to imaging platform.
 - **Platform:** Contributed to developing features in web-based image analysis platform in both front-end and back-end, including image viewer, analysis algorithms and analysis platform. The platform has revolutionized tissue diagnostics and accelerated pharmaceutical development process.
 - **Image server:** Developed features in image server written in Java to support multiple types of image files.
 - **Segmentation:** Prototyped semi-automatic interactive segmentation algorithm for real-time tissue segmentation tool in Matlab. Implemented it in C++ and deployed to production.
 - **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 using dynamic programming algorithm 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