

# Stanley Ho

<https://www.linkedin.com/in/stanleycho/>  
<https://stanleyho.info/>

Mountain View, CA  
Email : stanleyho0826@gmail.com  
Phone: +1-805-570-2560

## SUMMARY

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- 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

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

## EXPERIENCE

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- **Roche Tissue Diagnostics** Santa Clara, CA  
*Senior 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 developing 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

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- **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 in C.
  - **Coursework:** Computer Vision, Pattern Recognition (Machine Learning), Signal Processing, Digital Speech Processing
- **National Chiao Tung University** Hsinchu, Taiwan  
*Bachelor of Science, Industrial Engineering* *Jun. 2010*