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

Experience

- **Roche Tissue Diagnostics** — Santa Clara, 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 scability 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

- **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