Stanley Ho

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Summary

- Demonstrated hands-on programming skills and knowledge in software development and imaging processing
- Strong problem-solving and analytical skills with the ability to work on various projects
- Possess strong commitment to team environment and good communication skill

Programming Skills

- **Languages**: C++, C, Matlab, JavaScript, Java, Shell script, Python

  Technologies: Intel IPP, OpenCV, AngularJS, Jenkins, Apache httpd

Experience

- **Roche Tissue Diagnostics** — Mountain View, CA
  Software Engineer — *Nov 2013 - Present*
  - **Segmentation**: Contributed to image segmentation algorithm, which classifies tissue regions with deep learning approach, and integrated to imaging platform.
  - **Image server**: Implemented giga-pixel microscopy image server in C++ using Apache httpd server to improve performance, stability and streamline workflow.
  - **Platform**: Contributed to developing front-end and back-end of web-based image analysis platform, which includes image viewer and analysis algorithms. The viewer is written with AngularJS in JavaScript. The platform has digitized tissue diagnostics and accelerated pharmaceutical development process.
  - **Image server**: Developed multi-channel of image server serving giga-pixel microscopy images in Java.
  - **Segmentation**: Worked with scientist to prototype semi-automatic interactive segmentation tool for real-time tissue segmentation in Matlab. Implemented it in C++ and integrated to image analysis platform.
  - **Dev Environment**: Improved building, unit testing and continuous integration tools to streamline software development process.
  - **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; — *Jun. 2013*
  - **Project**: Improved 3D image registration routine by aligning 2D image sequences written in C.
  - **Coursework**: Advanced Computer Vision, Digital Speech Processing, Pattern Recognition.