

Stanley Ho

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SUMMARY

Software professional with 7+ years experience in design and developing robust software. Equipped with hands-on programming and problem-solving skills. Adapted to fast-paced environment and excelled in cross-functional team work. Possess passion for solving challenging problems and knowledge in computer vision/imaging processing.

PROGRAMMING SKILLS

Languages C++, C, Python, JavaScript, Matlab, Shell Script, Java, SQL

Technologies Intel IPP, OpenCV, Boost, Angular, React, Docker, Linux, Jenkins, Nodejs

EXPERIENCE

- **Deepmap** Palo Alto, CA
Software Engineer *May 2019 - Present*
Contributed to on-board software for building high-definition maps for autonomous vehicles.
 - **Data Collection:** Developed data collection coverage analysis feature in C++, which scales up mapping capacity, and mentored interns in the project.
 - **Map Management:** Contributed to on-board software and UI for map management.
 - **Benchmark:** Built benchmark framework in Python for on-board map change detection service.
- **Roche Tissue Diagnostics** Santa Clara, CA
Senior Software Engineer *Nov 2013 - May 2019*
Built cloud-based images analysis platform for Pathology. The platform has revolutionized tissue diagnostics and accelerated pharmaceutical development process.
 - **Image Server:** Implemented high resolution microscopy image HTTP server in C++. Improved scalability, response time and throughput by 50%.
 - **Machine Learning Pipeline:** Built cloud-based image analysis pipeline, which serves as data management and pipeline for data labeling and machine learning model training.
 - **Detection:** Contributed to developing cell detection algorithm in deep learning. Integrated and productized it to image analysis platform.
 - **Framework:** Contributed to developing features of image processing/computer vision library in C++.
 - **Segmentation:** Implemented semi-automatic interactive segmentation algorithm and tool for real-time tissue segmentation in Matlab and in C++.

CERTIFICATIONS

Coursera Deep Learning Specialization, TensorFlow in Practice Specialization

EDUCATION

- **University of California, Santa Barbara** Santa Barbara, CA
Master of Science, Electrical and Computer Engineering *Sep 2011 - Jun 2013*
- **National Chiao Tung University** Hsinchu, Taiwan
Bachelor of Science, Industrial Engineering *Sep 2006 - Jun 2010*