Phone: 831-295-2566
E-mail: elvenzhou@outlook.com
LinkedIn: linkedin.com/in/elvenzhou

MINGHUI ZHOU

OBJECTIVE

I'm a master student in computer science at UC Santa Cruz. I worked in the IT industry for 4 years as a software engineer, technical support specialist, and technical leader at companies like Marvell, Microsoft, and Citi Bank. And I'm currently looking for the internship of software development or related for the summer of 2019. I believe I can contribute unique values.

EXPERIENCE

Technical Support Team Manager, Citi Bank Jan 2017 – Sep 2017

- Led a team to support Robotic Processing Automation (RPA) system in Citi.
- Maintained the RPA and debugged issues with developer group to fix bugs.

Technical Support Specialist, Microsoft Feb 2014 – Feb 2017

- Provided customers with consulting and training services of Office 365.
- Debugged source codes of Office in allusion to product defects and assisted the product group to fix bugs.

Software Engineer, Marvell Apr 2013 – Feb 2014

- Developed auto test tools for the cellphone frameworks.
- Analyzed auto-test results and resolved the framework issues.

Intern of Mobile Segment, FairChild Semiconductor Jun 2012 – Mar 2013

- Helped design the circuit schematics and PCB boards.

EDUCATION

Master in Computer Science
University of California, Santa Cruz Aug 2018 – Jun 2020
Master in Aerospace Engineering (Computer Vision)
Shanghai Jiao Tong University Sep 2010 – Jul 2013
Bachelor in Measurement and Control Technology & Instrument
Northeastern University (CN) Sep 2006 – Jul 2010

SKILLS

Programing Languages: Java, JavaScript, SQL, Python, C++, C#
Tools and Frameworks: Git, MySQL, MongoDB, Matlab, TensorFlow
Other Keywords: Machine Learning, Computer Vision, Image Analysis

PUBLICATION

Zhou Minghui, Hu Shiqiang, Chen Sicong, **Cylinder Unwrapping and Real-time Target Tracking Based on Omni-directional Camera**, Published in Computer Engineering, 2013, Vol. 39, No. 1

PROJECTS

The Real-Time Tracking System Based on the Omni-directional Mobile Robot

• I used omni-directional camera to capture 360-degree video, and applied cylinder unwrapping algorithm to transform the panoramic image from omni-directional image, which effectively solved the distortion problem of panoramic image. Then, I combined CAMShift algorithm with Kalman filter to track the moving target in real time.

• Experimental results demonstrate that the proposed algorithm realizes a real-time and robustness target tracking under large-scale and complex scenes, which contains moving target occluded, temporary disappearance or interference from objects with same color.

Counting People in Crowded Scenes

• Did some Research and Compared the advantages and disadvantages between several image preprocessing algorithms, foreground segmentation methods and target tracking algorithms

• Designed a small system based on Visual Studio, MFC, OpenCV, C++ and the algorithms mentioned above to implement people counting in crowed stress.