Xu YANG

Personal Data

Personal Website:	https://jasonyangshadow.github.io
Github:	https://github.com/jasonyangshadow
email:	yangxu.tokyo@gmail.com
Nationality:	China
Current Region:	Japan

Education

Sep 2017- Apr 2021	Ph.D candidate, Kasahara Lab
	Gruadate School of Frontier Science
	The University of Tokyo, Chiba-ken, Japan
	Research Topic: rootless container and workflow system in bioinformatics
Sep 2010-Apr 2013	M.S Degree of Engineering, Lab of Intelligent and Distributed Computing
	Graudate School of Computer Science & Technology
	Huazhong University of Science & Technology, Wuhan,China
	Thesis: "Head Pose Estimation via Background Removal[1]"
	Thesis: "A method of head pose estimation via sparse representation[2]"
Sep 2006-Jun 2010	B.S Degree of Engineering, School of Computer Science & Technology
	Huazhong University of Science & Technology, Wuhan,China
	Undergraduate Thesis: "Application of sparse representation in face recognition"
Sep 2006-Jun 2010	B.S Degree of Management, School of Management
	Huazhong University of Science & Technology, Wuhan,China
	Undergraduate Thesis: "Analysis on the feature of author collaboration network & weighted network"

Research Interests

container technology	Interested in design and development of composable rootless container system for scientific research. The motivation is that root privilege is normally not approved by system administrator and most of pipelines employed in bioinformatic research have complex dependencies and runtime environments which will limit their reproducibility. Current famous implementations such as Docker and Singularity are not fully suitable for academic research.
	Research Period: Doctoral Course(2017.9-2021.4)
	Keywords: Rootless, container, fake union file system, LD_PRELOAD, fakechroot
	Project URL: https://github.com/jasonyangshadow/lpmx
	Tools and Languages: Golang, C
head pose estimation	Improved head pose estimation accuracy based on the prediction of background exists in face detection framework. We developed a ground truth database containing manually labeled background area of different head poses, which predicts and eliminates the approximate background of input data thus providing better head pose estimation accuracy.
	Research Period: Master Course(2010.9-2013.4)
	Keywords: Machine Learning, Computer Vision, Head Pose Estimation

Work Experience

Aug 2019 - Oct 2019	**Intern of Data Service Team at Preferred Network, Tokyo, Japan** Due to the inefficiency of Docker build command, I design and develop an alternative Docker build tool that could generate optimized Dockerfile for Docker Build command so that build time and storage required by Docker are reduced greatly. **Tools and Languages: Python Docker**
Apr 2016-Nov 2016	**Project Manager of the Data Service Group at Citigroup Services and Technology Corporation Limited,Shanghai,China** Design and develop a log processing and analysis system based on Elastic Stack, collecting and monitoring application log information **Tools and Languages: Java, Elastic Stack**
Apr 2013-Apr 2016	**Software Engineer of B2B and B2C Group at Travelsky Corporation Limited,Shanghai,China** Designed and developed a message-based middleware(Based on ActiveMQ) and air ticket fare system for China Eastern Airlines Corporation Limited. I was in charge of design and development of message platform acting as a fundamental communication infrastructure among the online heterogeneous systems and involved as a core developer to design the logic computing system for air ticket fare calculation **Tools and Languages: Java, ActiveMQ, Spring MVC, Redis**
Jul 2012-Sep 2012	**Intern of Online Media Group at Tencent Technology Corporation Limited,Beijing,China** Participated in the design and development of backend sub-system of official Tencent auto website(https://auto.qq.com). **Tools and Languages: Python**
Jul 2011-Jul 2012	**Visiting Researcher at Visual Information Processing and Learning Group(VIPL),Institude of Computing Technology(ICT),Chinese Academy Sciences(CAS),Beijing,China** I continued my research topic on improving the performance and accuracy of head pose estimation.

Rewards and Certificates

Dec 2014	Project Management Professional PMP, Project Management Institute
Feb 2013	Outstanding Graduate Student, Huazhong University of Science & Technology
Dec 2012	Merit Graduate Student, Huazhong University of Science & Technology
Dec 2012	Outstanding Master Dissertation Award, Huazhong University of Science & Technology
Sep 2010-Apr 2013	Graudate Student Full Scholarship, Huazhong University of Science & Technology
Jul 2011	Web Designer, Adobe China Certified Designer
Dec 2008	Software Designer Certification, Computer Technology & Software Qualification Examination

Activities and Skills

Oct 2017-Aug 2020	Student of Global Leader Program for Social Design and Management Graudate School of Public Policy The University of Tokyo
Skills	Familiar with C, C++, Golang, Rust, Java, Python programming languages, have experiences on design and development of distributed commercial systems
Languages	English(fluent), Chinese(native), Japanese(beginner)

PUBLICATIONS

[1] Bingpeng Ma, Xu Yang, and Shiguang Shan. "Head pose estimation via background removal". In: *International Conference on Intelligent Science and Intelligent Data Engineering*. Springer. 2012, pp. 140–147.

[2] Xu Yang et al. "A method of head pose estimation via sparse representation". In: *Chinese Science Paper Online* (2011).