

Yangqingwei (Yang) Shi

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PROFESSIONAL EXPERIENCE

Google LLC	San Francisco, CA
SWE-SRE III, Personalized Service Health, Google Cloud	Mar 2023 - Current
- Propose and develop a system that can process millions of GCP maintenance events and communicate with GCP end users in a fast and accurate way.	
SWE-SRE III, Virtual Testing, Google Cloud	Nov 2019 - Mar 2023
- Introduced and defined RPC-based coverage metric in turnup testing to help test owners understand and measure the quality of their tests running in VM-based testbeds;	
- Unblocked the critical path for testing cloud turnup by onboarding multiple Google Production services (Spanner, Remote Logs, Data Push) into a VM-based testing environment;	
- Reduced ~50% dollar cost of running tests by overcommitting CPUs on sole-tenant GCE VMs;	
- Initiated a shell-script based method to record user interaction history during their tests and hosted an intern to implement the tools;	
- Followed SRE best practice to ensure the reliability of our testing environment (e.g., configuring alerts, creating dashboards, writing playbooks, etc.);	
- Participated in on-call rotation to manage incidents and handle customer tickets.	
SWE II, Virtual Cluster, Google Cloud	Apr 2018 - Nov 2019
- Designed and implemented an automated workflow to update multiple package versions across all GCE Linux VMs in a cluster statelessly;	
- Implemented tools to manage cluster creation and deletion primarily in Python and Go.	
Amazon Inc	Seattle, WA
Software Development Intern, Customer Service Technology Department	May 2017 - Aug 2017
- Designed a new format to configure contextual-variable UI presentation for customer service agents' instruction cards and implemented the authoring process using Java and AWS.	
Peking University , Institute of Software	Beijing, China
Research Assistant in Programming Languages Lab, supervised by Dr. Yingfei Xiong	May 2014 - June 2016
- Developed a novel model of mutation analysis that analyzed mutants during the execution of the program and forked the execution only when a mutant led to a new system state.	
Carnegie Mellon University , School of Computer Science	Pittsburgh, PA
Research Intern at Institute of Software Research, supervised by Dr. Jonathan Aldrich	Jul 2015 - Nov 2015
- Extended a module system based on Wyvern Programming Language to enforce the architectural behavior by integrating descriptions directly into the language.	

EDUCATION

Carnegie Mellon University , School of Computer Science	Pittsburgh, PA
Master of Science in Computer Science (program acceptance rate < 4%)	Sep 2016 - Dec 2017
Peking University , School of Electronic Engineering and Computer Science	Beijing, China
Bachelor of Science in Computer Science, <i>SUMMA CUM LAUDE</i> Rank: 5/52	Sep 2012 - Jun 2016

SKILLS

Programming	Python, Golang, C, C++, Shell, Java, Javascript, SQL, MATLAB, HTML, PHP, OCaml
Tools	Linux, Git, Mercurial, Bazel, LaTeX, Tensorflow, Django, OpenCV, OpenGL, LLVM
Cloud Platforms	Google Cloud Platform (GCP), Amazon Web Services (AWS)