

RUTH GRACE WONG

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WEBSITE · LINKEDIN

Languages / Tools Python, Go, Bash, Amazon Web Services, Docker
Talks Containerization War Stories (SREcon), Flamegraph that! (PyCon Canada)
Firmware from the Firehose and Mfg Engineering in Your Spare Time (Hackaday)

EXPERIENCE

Senior Site Reliability Engineer - *Pinterest Cloud Architecture Team*

July 2016 to Present

- Technical lead for reliability and performance of server configuration management (Puppet) for 100K+ server fleet
- Modernized infrastructure by Dockerizing services, upgrading operating systems, and reducing dependencies in infrastructure provisioning.
- Implemented automatic machine image upgrades (OS, instance type) for services, using Python, Spinnaker, and AWS. Showcased at SREcon19 Asia/Pacific
- Set up Python monorepo with Docker, PyPi, and Debian package deploy with Pants build, Jenkins, Bash, and Artifactory, decreasing new service deploy time from one engineer day to one hour.
- On call for Pinterest uptime, often debugging and reverse engineering unfamiliar services

Part Time Manufacturing Engineer - *Aqua Design Innovations*

August 2018 to August 2019

- Responsible for managing factories, contractors, and vendors to maintain a 5-product line of hydroponic and aquaponic products.
- Manually CADed (Fusion 360), tested, and prototyped for product development.

Site Reliability Engineer Intern - *Google Persistent Disk team*

May 2015 - August 2015

- Implemented early detection system for compaction failures in cloud storage segments

RESEARCH AND WRITING

Masters Thesis Created DNA analysis pipeline to study role of gut microbiome in liver disease and atherosclerosis, including new ways to assess differences between samples.

Technical writing For Scope of Work and SupplyFrame Hardware, mostly about manufacturing

Technical consulting Cybersecurity recommendations for FDA compliance for PathologyWatch

EDUCATION

Masters of Science 2016 Computational Biochemistry, University of Western Ontario

Bachelor of Medical Science 2014 Computational Biochemistry, University of Western Ontario
Competed on ACM programming team 2010-2013