RUTH GRACE WONG

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WEBSITE · LINKEDIN

Languages / Tools	Python, Bash, Java, R, Amazon Web Services, Fusion360 CAD
Talks	Containerization War Stories (SREcon), Flamegraph that! (PyCon Canada)
	Firmware from the Firehose and Mfg Engineering in Your Spare Time (Supercon)

EXPERIENCE

Site Reliability Engineer - Pinterest Core SRE team

July 2016 to Present

- Wrote proof of concept for automating machine image upgrades (OS, instance type) for services, using Python, Spinnaker, AWS.
- Automated server configuration testing, using Vagrant, Puppet, Jenkins, Bash.
- Consulted on and conducted many migrations to Docker, out of Ubuntu 12, from masterful to masterless puppet, making services more operational and secure.
- Upgraded and maintained internal tools for generating flamegraphs, accessing machine logs, querying machine images, and administrating developer machines, using Flask and Go.
- Set up Python monorepo with automatic Docker, PyPi, Debian package deploy, using the Pants build system, Jenkins, Bash, and Artifactory.
- 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

PROJECTS

Masters Thesis	Created custom DNA analysis pipeline to study role of gut microbiome in fatty liver disease and atherosclerosis. Developed techniques to measure difference between samples.
Hack Western	Ran a 500 student, 36 hour hackathon, managed 16 students, raised $50,000.

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
	Interned for mouse cancer research at the Egan Lab in Toronto