RUTH GRACE WONG

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SKILLS

Programming and Scripting	Python, Bash, Java, R
Software / Tools	Amazon Web Services, Fusion360 CAD

EXPERIENCE

Site Reliability Engineer - Pinterest Core SRE team

July 2016 to Present

- Wrote pipeline for automating machine image upgrades (OS, instance type) for services, using Python and Spinnaker.
- 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, and Bash.
- On call for Pinterest uptime, often debugging and reverse engineering unfamiliar services.

Part Time Manufacturing Engineer - Aqua Design Innovations

August 2018 to Present

- Bringing Sprout (plastic tray for growing microgreens) and Air 2 (IoT decorative hydroponics) products from design to production
- Orchestrating factories, contractors, and third party vendors to validate and build high quality production lines.
- Manually CADed, tested, and prototyped for speedy iterative 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. Directed a team of 16 students to do sponsorships and logistics.

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