

# 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 (Supercon)

## EXPERIENCE

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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 vendors to validate and build 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

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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

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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