Matthew **Lam**

SOFTWARE ENGINEER

Seattle, WA

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Work Experience

Oracle Cloud Infrastructure | Senior Member of Technical Staff
Seattle, WA
PYTHON, JAVA, DOCKER, KUBERNETES, TERRAFORM
01/2020 - Present

- Developing an internal metrics service to track API usage of Oracle Cloud Infrastructure in Python and Java.
- Improved scalability and reduced operational risk by replacing cron based scheduler with work queue using competing consumer pattern.
- Integrated service with OCI monitoring, alarming, and logging to monitor application health.
- Wrote Helm Chart to deploy service to Kubernetes (OKE) via Terraform.
- Mentored Junior Engineers.

F5 Networks | Software Engineer III
Seattle, WA
C, PYTHON, FLASK, ANSIBLE
03/2016 - 01/2020

- Debugged and fixed customer facing issues in the BIG-IP's LTM and DNS modules.
- Designed and Implemented BIG-IP feature to better manage core files and prevent loss of information necessary to diagnose why the core occurred.
- Performed threat model assessments on new F5 features to ensure secure design of new features.
- Developed Continuous Integration Pipeline in Python to perform Build, Test, and Integration for maintenance releases.
- Productionized F5 Bug Tracker backend for customers to self service check status of bugs instead of creating a support request.
- Wrote Python script to generate F5 Log Messages Reference for customers to better understand the conditions, impact and recommended actions for various warnings and errors in their logs.
- Maintained Perl script to interact with various apis and generate release notes for BIG-IP maintenance releases.
- Contributed to F5 ansible's bigip_device_dns and bigip_hostname modules.
- Implemented scripts that utilize GDB's Python-API to automate running of necessary commands.
- Mentored Intern and Junior Engineers.

Internships

F5 Networks | Intern
Seattle, WA
PYTHON, FLASK, PERL
06/2015 - 03/2016

- Researched security vulnerabilities and how they affect the BIG-IP platform.
- Developed Proof of Concept for F5 Bug Tracker using Python-Flask and MSSQL.
- Developed various scripts that interface with Perforce, Bugzilla, and MSSQL in Perl.

GoldSim Technology Group | Intern
Issaquah, WA
TEST COMPLETE
06/2013 - 09/2013

- Wrote automated black box tests for the GoldSim software in Test Complete
- Quality Assurance on xLPR V2 Model GUI
- Manual testing of compatibility between models created in GoldSim 10.5 with GoldSim 11

Skills

Languages	Python, C, Java, SQL, Perl, HTML/CSS, JavaScript
Technologies	Ansible, Docker, Flask, GDB, Helm, Kubernetes, Networking, REST API, Unix

Education

Western Washington University
Bellingham, WA
BACHELOR OF SCIENCE IN COMPUTER SCIENCE
2011 - 2015