

Amogh Joshi

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EDUCATION

Stony Brook University

Stony Brook, USA

Master of Science in Computer Science; GPA: 3.50/4.0

Feb 2021 – May 2022 (Expected)

- **Coursework** : Distributed Systems, Operating Systems, Network Security, Theory of Computation, Programming Abstractions, Human-Computer Interaction, and Logic in Computer Science

Sri Jayachamarajendra College of Engineering

Mysore, India

Bachelor of Engineering; GPA: 8.75/10.0

Aug 2015 – May 2019

PROGRAMMING SKILLS

- **Languages** : Java, Python, Go, Javascript, C++, C, SQL, Shell scripting
- **Technologies** : AWS, Docker, Kubernetes, Spring-Boot, Django, ElasticSearch

EXPERIENCE

Associate Software Engineer

July 2019 - Dec 2020

LogMeIn

Bangalore, India

- Automated 80% of all manual test cases by adding end-to-end automation tests using Selenium Webdriver for GoToWebinar's Analytics SPA.
- Developed automation frameworks for testing GoToWebinar and GoToMeeting RESTful APIs using TestNG.
- Optimized and improved the usability of existing automated tests, reducing execution time by 25% and achieving 85% test coverage of the application using CI/CD pipelines.
- Developed automation frameworks for testing mobile applications using Appium for both Android and iOS devices.
- Performed positive, negative, and boundary conditions testing on all input elements, reported over 14 critical and hundreds of non-critical bugs.
- Developed database release and deployment jobs, migrated existing database jobs from BuildForge to Jenkins.
- Developed and executed JMeter test plans for performance and load testing.
- Setup Wavefront and Splunk monitoring dashboards for GoToWebinar backend services.
- Worked on a PoC to evaluate the use of ElasticSearch to ingest GoToMeeting and GoToWebinar transcripts for enhancing content search capabilities.

PROJECTS

Containerization on GPU Clusters for AI

Aug 2021 - Present

- Developing a Kubernetes containerized cloud environment for homogeneous, heterogeneous, and hybrid HPC clusters with GPUs for AI.
- Creating an intuitive lay-persons' graphical dashboard, and a shared repository of containers for AI algorithms and resources for HPC clusters with GPUs or other accelerators.

Super Simple Distributed Shared Memory | Github

May 2021 - Jun 2021

- Implemented "s2dsm", a distributed shared memory (user-level) program that supports a page-granule MSI protocol using userfaultfd.

Plugboard Proxy | Github

Apr 2021 - May 2021

- Developed a "plugboard proxy" for adding an extra layer of protection to publicly accessible network services.

DNS Packet Injection and Detection | Github

Mar 2021 - Apr 2021

- Developed an on-path DNS poisoning attack tool, and a passive DNS poisoning attack detector in Go using the GoPacket library.

CPU Profiler | Github

Feb 2021 - Mar 2021

- Designed a CPU profiling tool as a kernel module which when loaded, keeps track of the time spent on the CPU for each task.

CERTIFICATIONS

AWS: Solutions Architect Associate

Coursera: Machine Learning, Deep Learning Specialization