

# Amogh Joshi

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## EDUCATION

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### **Stony Brook University**

Stony Brook, USA

*Master of Science in Computer Science; GPA: 3.67/4.0*

*Feb 2021 – Dec 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

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

## EXPERIENCE

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### **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

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### **Plugboard Proxy** | Github

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

### **CPU Profiler** | Github

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

### **DNS Packet Injection and Detection** | Github

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

### **Network Traffic Sniffing** | Github

- Developed a passive network monitoring application that captures the traffic from a network interface in promiscuous mode and prints a record for each packet in its standard output.

### **Super Simple Distributed Shared Memory** | Github

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

### **Dexterous Trashbot** | Github

- Developed an all-terrain robot to segregate garbage into five categories - glass, cardboard, metal, plastic, and paper.
- The robot uses deep learning for segregation and has a robotic arm for picking the object.

## CERTIFICATIONS

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**AWS**: Solutions Architect Associate

**Coursera**: Machine Learning, Deep Learning Specialization