

Amogh Joshi

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EDUCATION

Stony Brook University

Master of Science in Computer Science, GPA: 3.67/4.0

Stony Brook, USA

Feb 2021 – Dec 2022 (Expected)

Sri Jayachamarajendra College of Engineering

Bachelor of Engineering; GPA: 8.75/10.0

Mysore, India

Aug. 2015 – May 2019

RELEVANT COURSEWORK

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

PROGRAMMING SKILLS

Languages: Java, Python, Go, Javascript, C++, C, SQL, Shell scripting

Technologies: AWS, Docker, Kubernetes, Spring-Boot, Django, Elasticsearch

EXPERIENCE

Associate Software Engineer

LogMeIn

July 2019 - Dec 2020

Bangalore, India

- Developed automation frameworks for testing GoToWebinar and GoToMeeting RESTful APIs using TestNG.
- Added end-to-end automation tests using Selenium Webdriver for GoToWebinar's Analytics SPA.
- Developed automation frameworks for testing mobile applications using Appium for both Android and iOS devices.
- Developed database release and deployment jobs and 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.

PROJECTS

Plugboard Proxy | Github

- Developed a “plugboard proxy” for adding an extra layer of protection to publicly accessible network services.
- The program was written in Go using the Crypto library.
- It adds an extra layer of encryption to connections towards TCP 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.
- Both tools were developed in Go using the GoPacket library.

Network Traffic Sniffing | Github

- Developed a passive network monitoring application written in Go using the GoPacket library.
- The program captures the traffic from a network interface in promiscuous mode (or reads the packets from a pcap trace file) and prints a record for each packet in its standard output, much like a simplified version of tcpdump.

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

AWS: Solutions Architect Associate

Coursera: Machine Learning, Deep Learning Specialization