

Ruturaj Mohite

📍 Bangalore, India

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in ruturaj-mohite

Education

International Institute of Information Technology

Bachelor and Master of Technology in Computer Science

GPA: 3.58/4

Bangalore, India

2019 - 2024

Experience

Google

Software Engineer

Part of the Google Store Content Management and Publishing team.

Bangalore, India

July 2024 - Present

Mercari, Inc.

Software Engineering Intern

Part of the Mercari Japan Region Trust and Safety team.

o Designed and implemented age restriction for item listings on Mercari Marketplace.

o Improved development infrastructure for TnS services - Set up service routing, dev monitors etc.

Technologies: Go, gRPC, Kubernetes, Async Service Communication

Tokyo, Japan

Feb 2024 - Mar 2024

Google

Software Engineering Intern

Part of the Google Store Content Management and Publishing team.

o Implemented a service to index and verify published releases during New Product Introductions (I/O, Made By).

o Designed a service to detect replication inconsistencies across distributed Spanner instances during publishing of a release.

o Reduced late change buffer time **from order of hours to order of seconds** before NPI.

Technologies: Java, Distributed Cache Systems, gRPC

Bangalore, India

May 2023 - Aug 2023

Cloud Native Computing Foundation, Layer5

Software Engineering Intern

meshery.io [↗](#)

o Added Kubernetes multi-context support to Meshery, a Cloud Native Management Software.

o Improved API for Kubernetes component registration with Meshery.

Technologies: Kubernetes, Docker, Go, Cloud Native, gRPC

Remote

Jun 2022 - Jan 2023

Projects

CircuitVerse Simulator [↗](#)

2021-Present

CircuitVerse is an open source digital logic simulator. Try now at circuitverse.org/simulator [↗](#)

o Implemented testbench engine and circuit contention detection.

o Many fixes in resolution engine, subcircuits, circuit loading etc. Also some backend features and fixes.

o Led Google Summer of Code projects related to engine performance, version control and testing.

CircuitVerse is used by **over 100k users and many universities**. It's also a part of Google Summer of Code.

Contain: A container process level packet filter [↗](#)

2024

eBPF based kernel level filter for Linux that filters packets based on container and process level policies

o Implemented a BPF_PROG_TYPE_CGROUP_SKB program and kprobes to filter socket connections for each process

o Implemented a daemon using kprobes to detect containers at runtime

very Simple Operating System [↗](#)

2021

A simple 32-bit operating system for x86 systems.

o Implemented a basic bootloader to switch into protected mode and load kernel into memory

o Implemented VGA, keyboard drivers, custom libc and an interactive shell

Skills

o **Tools and Technologies:** Go, Java, C++, Linux, Docker, Kubernetes

o **Relevant Coursework:** Cloud Computing, Software Engineering, Data Structures and Algorithms

o **Areas of Interest:** Distributed Systems, Web and Network Security, Cloud Computing, Operating Systems

Positions and Achievements

o Google Summer of Code Organization Admin, Maintainer at CircuitVerse [↗](#) (2022, 2023, 2024)

o Full travel grant & scholarship to attend Open Source Summit EU 2022

o Dean's Merit List Scholarship (2020)