



SURIYA GANESH

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Education

Carnegie Mellon University

Master of Science in Information Technology

Dec 2024

Pittsburgh, PA

Anna University

Bachelor Engineering, Instrumentation Engineering

Apr 2019

Chennai, India

Relevant Coursework

- Systems Programming
- Data privacy
- Differential privacy
- Deep Learning
- Explainable ML
- Distributed System

Work Experience

School of Computer Science, CMU

Part-time SDE, Computational Biology

Sep 2023 – present

Pittsburgh, Pennsylvania

- Contributed to Rust libraries used for computational biology emulation and drug discovery

Nimbleedge

Senior Systems Engineer

Jan 2023 – July 2023

Bangalore, India

- Worked on nimbleedge's federated learning (FL) platform and individually designed, built, deployed and managed their ML model sampling, training and aggregation systems.
- Worked with ML researchers to convert cutting edge FL techniques and strategies into Deployable and maintainable applications
- Prototyped demonstrable systems to prospective customers to showcase federated learning applications and their benefits.
- Planned, Mentored and worked with Junior engineers and interns on deliverables and deployments.

Skyflow

Software Development Engineer

Oct 2021 – Dec 2022

Bangalore, India

- Part of the Governance team. Working on services Securing and governing privacy-vault.
- Worked on performance optimisations for the governance engine. Which reduced p99 response time from 150 ms to 5ms at 15K rps. Using Leveled caching and cache invalidation mechanisms
- Worked on migration from a single tenant architecture to a multitenant architecture. With data residency in multiple AWS regions.
- Migrated from a Arangodb based backend to Mongoddb. To improve reliability and performance.

Acko General Insurance

Software Development Engineer

July 2019 – Oct 2021

Bangalore, India

- As a member of the platforms team, built internal audit service, pdf signing service.
- Improved developer tooling over a rust codebase, with methods like remote code compilation and cluster spawning.
- stepped up, handling more than 150 releases over a period of 7 months coordinating across 8 different teams, besides regular development tasks, during a period of management turmoil.
- Built the internal CICD platform to test, run and deliver test results to the stakeholders.

Technical Skills

Languages: Rust, Go, C++, python, javascript

Technologies/Frameworks: kafka, K8s, Docker, EKS, Azure, AWS,

Other Activities and Achievements

HackCMU

Winner

September 2023

ACM @ CMU

- Competed and won in the HackCMU 2023 contest. built a complete interactive orbital satellite tracker overnight.

IEEE students chapter

President

Apr 2017 – Apr 2019

Anna University

- Organised the international conference for Instrumentation engineers, with international delegates and research papers.