

PRAKHAR GURUNANI

📞 +91 9714713453 ✉ prakhargurunani@gmail.com 🌐 GitHub: FirePing32 🌐 prakhargurunani.com

Education

Birla Institute of Technology and Science, Pilani

Bachelor of Engineering in Civil Engineering

2021 – 2025

Pilani, Rajasthan, India

Experience

Software Engineer

Jan 2024 – Present

Simplismart

Bangalore, India

- Implemented observability solutions for internal infrastructure using Prometheus, Grafana, and OpenTelemetry
- Developed proxy services in Golang for various SOTA models, improving request throughput by **3x** while reducing latency by **22%**
- Built a metering system using Lago for usage-based billing, processing API calls across **10+** SKUs
- Designed Helm charts for **20+** internal applications, streamlining Kubernetes deployments
- Engineered a federated monitoring system for tenant-specific observability, reducing debugging time by **60%**
- Developed a benchmarking suite with Apache Airflow to test and optimize various LLMs and SOTA models
- Deployed WAF on AWS for threat intelligence, preventing **10k+** malicious requests per day, and enabling fine-grained rate-limiting of proxy systems
- Automated application deployments using ArgoCD, cutting release times from hours to minutes
- Conducted performance testing with tools like Locust and JMeter, improving system efficiency by **35%**
- Optimized in-house tools to improve infrastructure provisioning for various long-running AI pipelines, reducing provisioning time by **70%**

Google Summer of Code 2024

May 2024 – August 2024

MetaCall - MacOS Distributable For MetaCall

Remote

- Developed a CI pipeline for automatic compilation and testing of MetaCall binaries for multiple architectures
- Integrated **8** language loaders (NodeJS, Java, Python, TypeScript, Ruby, Wasm, Go, and Cobol) for MacOS distributable
- Created test suites and integrity checks using tools like otool and codesign, resulting in over **95%** test coverage
- Updated the install script to support MacOS installation, reducing the installation time by **40%** compared to compiling from source

Software Engineer Intern

January 2023 – April 2023

Flippy

Bangalore, India

- Built a robust data engine pipeline to get data from various vendors and store it in AWS DynamoDB
- Setup a real-time lambda service to provide near real-time tick data, reducing latency times to **20ms**
- Migrated various microservices to AWS ECS along with AWS Elastic load balancer, reducing downtime by **65%**
- Created Ci/CD pipelines to deploy apps to test and production environments, reducing A/B testing times by **65%**
- Designed a robust caching system for various microservices using AWS ElastiCache, reducing database calls by **60%**
- Implemented an API service for one of the core products to provide data-as-a-service to various third parties

Google Summer of Code 2022

May 2022 – September 2022

52°North - Python client for OGC Maps API

Remote

- Created a Python Wrapper for accessing various data points offered by OGC Maps API
- Implemented features like feature flags, parameter validation, and automatic handling of blob data
- Built context-aware terminal client to access wrapper functions from the CLI with support for command completion
- Setup automated tests and git hooks to check code quality and coverage
- Deployed a CI/CD pipeline to generate documentation using Sphinx

Projects

G-Meet Auto Join 🌐 Chrome extension to automatically join Google Meet meetings at scheduled timestamp

PyPSI 🌐 Python wrapper for Google PageSpeed Insights to generate lighthouse metrics for multiple devices

Go-Carbon 🌐 An unofficial REST API for the Carbon project written in Go, with a 3x performance speed

Skills

Languages: Python, JavaScript, Go, TypeScript

Platforms: GCP, AWS, Kubernetes, Docker, Terraform, Apache Airflow, Apache JMeter, Android

Observability: Grafana, Prometheus, OpenTelemetry, SigNoz, Elasticsearch

Frameworks: React, React Native, Fiber, FastAPI, Node.js, Flask, Django, Nginx

Databases: MySQL, Postgres, MongoDB, Redis, Memcached, Kafka