

# PRAKHAR GURUNANI

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## Education

### Birla Institute of Technology and Science, Pilani

Bachelor of Engineering in Civil Engineering

2021 – 2025

Pilani, Rajasthan, India

## Experience

### Google Summer of Code 2024

May 2024 – August 2024

MetaCall - MacOS Distributable For MetaCall

Remote

- Developed and implemented a CI pipeline for MacOS, enabling automatic compilation and testing of MetaCall distributable binaries for both AMD64 and ARM64 architectures
- Integrated **8** language loaders (NodeJS, Java, Python, TypeScript, Ruby, Wasm, Go, and Cobol) into the MacOS distributable, expanding MetaCall's cross-language functionality
- Created comprehensive test suites for the distributable binary, including 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
- Implemented E2E testing for the MacOS distributable across multiple OSX versions, ensuring compatibility with **3** major releases

### 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 **95%**
- Built scalable backend systems using FastAPI and Django
- Created Ci/CD pipelines to build and deploy code to test and production clusters, which reduced A/B testing times by **65%**
- Designed a robust caching system for various microservices using AWS ElastiCache and Redis, which reduced database calls by **98%**
- 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 a context-aware terminal client to access the wrapper functions from the CLI with support for command completion
- Deployed a CI/CD pipeline to generate documentation using Sphinx
- Setup automated tests and git hooks to check code quality and coverage

## Projects

### G-Meet Auto Join 🌐 | Chrome Extension

- A Chrome extension to automatically join Google Meet meetings
- Automatically saves meeting information for recurring meetings
- Automatically leaves the meeting after the user specified duration

### PyPSI 🌐 | CLI Tool

- Python wrapper for Google PageSpeed Insights API
- Generates metrics for the performance of a web page on multiple devices
- Created a CLI tool to access it from the command line
- Made an API for the same for use in Python scripts

### Go-Carbon 🌐 | REST API

- An unofficial REST API for the Carbon project written in Go
- 3X Performance speed as compared to the existing image engine
- Uses Gist ID to import source code from GitHub
- Image parameters can be passed as query strings to the API

## 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