

Kumar Shivendu

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Skillset

Languages Python · JavaScript · Go · Dart · C++ · Bash
Frameworks Django · Node.js · React · Flutter · Material UI · Bootstrap
Miscellaneous Docker · Elasticsearch · Redis · PostgreSQL · AWS · Figma · Pytest · Cypress

Experience

Software Engineer @ SuperTokens (YC 20)

Mar. 2022 - Present

- SuperTokens is an open-sourced authentication alternative to Auth0, Firebase, and AWS Cognito and is growing fast with **7k+ stars**
- Implemented easy to override recipes for dashboard, multi factor authentication (MFA), user roles (RBAC), and user metadata.
- Introduced email/sms delivery, SDK logging, new integration tests, and deployed hotfixes for issues reported by our users.
- Improved code quality with good software development practices like parameterization of tests, mocking, fixtures, linters, and formatters.

Backend Engineer Intern @ FamPay (YC 19)

Sep. 2021 - Mar. 2022

- FamPay is India's first numberless card and payments app for teenagers with **5M+ users** and 38M\$+ in Series A funding.
- Refactored code and unit + integration tests related to UPI payments, KYCs, and asynchronous celery based batch jobs.
- Introduced mypy, parameterized, and diff-coverage in CI pipelines to improve the quality and robustness of our code and tests.
- Researched the bottlenecks in our AWS Redshift setup and the ways to optimise it for better resource utilisation on tables with 1B+ rows.
- **Saved 50k\$+ annually on Anomaly Detection using an open sourced tool:** Chaos Genius (YC 20) instead of Anodot or AWS Cloudwatch.

Google Summer of Code Student @ Software Heritage

May. 2021 - Aug. 2021

- Software Heritage (SWH) is an ambitious project by Inria (Paris) to collect and preserve all of the open-source software that ever existed.
- Developed **advanced metadata search features on top of 170M+ public software repositories containing 12 Billion+ source code files!**
- Ingested metadata of 170M+ software repositories from Kafka and RPC APIs of multiple services into Elasticsearch cluster.
- **Designed a custom search query language** and wrote translator that **converts the Abstract Syntax Tree (AST) into Elasticsearch queries.**
- Implemented autocompletion for the custom query language in the web interface using WebAssembly, Javascript, CSS, and Django.
- Wrote unit and integration tests using Pytest and Cypress for multiple services while maintaining a 100% test coverage.

SDE Intern @ Logy.AI

Feb. 2020 - Jul. 2020

- Developed the **appointment booking portal for Colgate (Nigeria) MyToothDoc service** using Django. (**100k+ users**)
- Revamped the internal Image data annotation platform using Django and multiple Javascript libraries.
- Doubled the speed of the malaria detection APIs by implementing an OpenCV based blurry microscopic image detector.
- Developed a **bridge service using websockets to interlink Whatsapp chatbots with our customer support dashboard.**

Projects

Activity-Tracker

- An **ecosystem of applications that continuously track and pull usage data** of browsers, IDEs, desktop, and mobile apps
- A web dashboard that displays all the time spend across all of your devices, websites, projects, and even programming languages.
- Tech Stack: NodeJS, Electron, Flutter, MongoDB, React, Material UI

Gongo

- A Django inspired opinionated **web framework written in Go language.**
- Tech Stack: Golang, Gorm, Daisy UI (Tailwind CSS)

DukanHelp

- Mobile (Flutter) and web based invoicing and inventory management app for small businesses.
- Tech Stack: Flutter, Flask, JS, Bulma, GSheets API, SQLite

CodeSensei

- Django based online programming judge that conducts **time-bounded programming contests and quizzes** using docker containers.
- React based dashboard to manage the ongoing contests and problem statements.

Open source contributions @ SWH

- Created listers to crawl and ingest source code from Fedora packages (.rpm files), Gogs (self hosted code hosting platform), and SourceHut.

FaceBeauty

- A Flask app that automatically retouches the skin and applies color filters on the provided image using OpenCV, Dlib, and Pytorch.

Doctree

- A tree-sitter (parser) based documentation generator tool for any language with fast symbol search feature. Written in Golang with @slimsag

Education

Indian Institute Of Technology (IIT) Bhilai

Bhilai, India

BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING

Jul. 2018 - May. 2022

CGPA: 8.2/10.0