

Kumar Shivendu

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Skillset

Languages Python · JavaScript · Go · Dart · C++ · Bash
Frameworks Django · Node.js · React · Flutter · Material UI · Bootstrap
Machine Learning Numpy · Pandas · Matplotlib · Scikit learn · OpenCV · PyTorch · Keras · Plotly
Miscellaneous Docker · Redis · PostgreSQL · Elasticsearch · 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 6k+ stars.
- Rapidly deployed hotfixes for multiple issues reported by our users and configured logging for easier debugging in the Python SDK.
- Implemented an email and SMS feature in SDK that allow using our core's APIs as well as overriding with custom logic.

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.
- We have preserved a total of **12 Billion+ source code files coming from 170M+ public software repositories!**
- 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) PocketDentist service using Django.
- 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 Django channels to interlink Whatsapp chatbots with the customer support dashboard.**

Data Scientist Intern @ IIT Mandi

May. 2019 - Jul. 2019

- Developed ML models using Keras and Tensorflow to forecast network usage timeseries data.
- Developed the foundation for our research paper that got accepted in IEEE.

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.

Dj-Flask

- A proof-of-concept python library that allows writing middlewares that work seamlessly in Django as well Flask.

FaceBeauty

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

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