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#### Skillset\_

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

## Experience\_

## Backend Engineer @ SuperTokens (YC 20)

Mar. 2022 - Present

- SuperTokens is a highly customizable authentication tool that is growing fast with 9k+ stars on GitHub and thousands of SaaS users.
- · Architected our most requested enterprise features multi-factor authentication (MFA) and Time-based OTP
- · Implemented overridable features for email verification, dashboard, user roles (RBAC), account linking, and multitenancy in our SDKs.
- · Introduced email/sms delivery, SDK logging, new integration tests, and deployed hotfixes for bugs reported by our users.

## **Software Engineer Intern @ FamPay (YC 19)**

Sep. 2021 - Mar. 2022

- FamPay is India's first numberless card and payments app for teenagers with 10M+ users on the platform.
- Refactored code and unit + integration tests related to UPI payments, KYCs, and asynchronous celery batch jobs.
- Researched the bottlenecks in our AWS Redshift setup and the ways to optimize it for better resource utilization 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 has ever existed.
- Developed advanced metadata search features on top of 240M+ public software repositories containing 15 Billion+ source code files
- Created workers to ingest metadata from 240M+ software repositories from Kafka and RPC APIs of multiple services into Elasticsearch cluster.
- Designed a custom search query language and wrote a 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 100% test coverage.

SDE Intern @ Logy.Al Feb. 2020 - Jul. 2020

- Developed the appointment booking portal for Colgate MyToothDoc service using Django. (100k+ users)
- · Doubled the speed of the malaria detection APIs by implementing an OpenCV-based blurry microscopic image detector.
- Developed a bridge service using web sockets to interlink Whatsapp chatbots with our customer support dashboard in realtime.

## Data Scientist Intern @ IIT Mandi

May. 2019 - Jul. 2019

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

## **Side Projects**

## **Activity-Tracker**

- An ecosystem of applications that continuously track and track time spent on browsers, IDEs, desktop, and mobile apps
- Tech Stack: NodeJS, Electron, Flutter, MongoDB, React, Material UI

#### **DukanHelp**

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

# Open source contributions @ Software Heritage

- Created listers to crawl and ingest code from Fedora packages (.rpm files), Gogs (code hosting platform), and Hex.pm (Erlang package manager).
- Mentored an intern during Google Summer Of Code 2022
- Received Open Source Peer Bonus award from Google for my contributions

#### **Technical blogs**

- In-depth look at ACID properties of Postgres Link
- · Exploring Data Structures in Redis Link
- · Python testing best practices Link

## **Open Source projects and contributions**

- · doctree: A parser-based documentation generator for any language with symbol search. Written in Go (850+ stars)
- vscode-advanced-search: VSCode Extension for bulk search/refactor that's more powerful than regex. Winner in FOSS United Hackathon
- · search-copilot: Chrome extension that scrapes search results on any website for semantic search using GPT embeddings
- ann-benchmarks: First person to benchmark Qdrant vs Pgvector on OpenAI embeddings at 1M scale. Creators of Yahoo Search, Github Copilot, and Spotify recommendation engine talked about my work on Twitter!

#### Education

## Indian Institute Of Technology (IIT) Bhilai

Bhilai, India

Jul. 2018 - May. 2022

BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING

CGPA: 8.2/10.0