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Skillset.

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Languages Python · JavaScript · Go · Java · Dart · C++ · Bash
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Frameworks Django · Node.js · React · Flutter · Material UI · Bootstrap · Tailwind

Miscellaneous Docker · PostgreSQL · Redis · Elasticsearch · AWS · Figma · Pytest · Cypress

Experience _

Software Engineer @ SuperTokens (YC 20)

Mar. 2022 - Present

- SuperTokens is a highly customizable authentication tool that is growing fast with 8k+ stars on GitHub and thousands of B2B SaaS customers.
- · Architected one of its kind Multi-factor authentication (MFA) framework and Time-based OTP recipe
- · Implemented customizable recipes for email verification, dashboard, user roles (RBAC), and user metadata.
- · Introduced email/sms delivery, SDK logging, new integration tests, and deployed hotfixes for bugs reported by our users.

Backend 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 ever existed.
- Developed advanced metadata search features on top of 200M+ public software repositories containing 14 Billion+ source code files!
- Ingested metadata of 200M+ 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

- 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 web sockets to interlink Whatsapp chatbots with our customer support dashboard.

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 pull usage data across 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
- Pub/Sub VS Queues using Kafka and RabbitMQ Link

Other projects

- doctree: A parser-based documentation generator for any language with symbol search. Written in Go with @slimsag (800+ stars)
- vscode-advanced-search: VSCode Extension to do a bulk search/refactor which is impossible with regex. Winner in FOSS United Hackathon
- · browser-semantic-search: Chrome ext. that enhances existing search features of any website using GPT3/4 and its embeddings!

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