

Sambhav Saxena

Portfolio: sambhavsaxena.me

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EDUCATION

- **Deenbandhu Chhotu Ram University of Science and Technology** Sonipat, India
Bachelor of Technology - Computer Science and Engineering; GPA: 8.24 October 2020 - September 2024
Courses: Operating Systems, Data Structures, Analysis Of Algorithms, Object Oriented Programming, Computer Networks, Databases
- **St. Thomas Sr. Sec. School** Faridabad, India
Senior Secondary; Percentage: 91.4 April 2018 - March 2020
Main Course: Non-Medical

SKILLS SUMMARY

- **Languages:** C++, JavaScript, Python, TypeScript, Java, Dart
- **Frameworks:** ExpressJS, Redux, Next, GraphQL, NodeJS, React Native, Flask, Flutter, MUI, Bootstrap
- **Tools:** Git/Github, Android Studio, Docker, JEST, MongoDB, PostgreSQL, Atlas, Compass, Postman
- **Platforms:** Linux(Arch based) with GNOME / XFCE, Web, Windows, Firebase, Azure, AWS
- **Soft Skills:** Leadership, Project Management, Public Speaking, Time Management

EXPERIENCE

- **Software Development Intern - EarthOnly** Remote
Backend Engineer *Certificate* November 2022 - Present
 - **Developed password-less user authentication architecture:** Using NodeJS and Express as the backend framework, and coordinating with my *mentor*, we developed a secure password-less authentication system, implemented unit testing with JEST and modulated code structure, following AGILE methodology and best practices for software development.
 - **API key creation service:** Created a service to generate pre-signed URLs for interacting with S3 buckets and objects, and creating verification token keys for individual users, having their own set of access rules for the database.
- **Full Stack Developer - IIC - DCRUST** On Site
Maintainer of the repository May 2022 - August 2022
 - **Implemented delivery of static assets through CDN:** Most of the assets were statically added to the website. With the help of CDN, I reduced the loading time by around 6 - 8 seconds, as evident *here*, delivering clean modulated code.
 - **Other changes:** Modified the card designs and layout of the website's pages so that it looks even more attractive.
- **Web Developer - WhatCode.in** Remote
Full Stack developer (Intern) *Certificate* March 2022 - May 2022
 - **Oriented API endpoints:** crafted a robust API store using GraphQL that later served over hundreds of users.
 - **Frontend web app:** developed template for *CryptoTax* from scratch using NextJS which renders the components 80% faster than vanilla JS, user authentication with JSON Web Tokens on Firebase, dashboard routes and more.
 - **Major UI changes:** synergized responsiveness to websites previously developed for startups like *Yoga With Saloni*.

PROJECTS

- **Ikigai - A scalable application to publish blogs anonymously:** Dedicated search field for looking up articles of different interests, clean, open course, use of CDN to deliver images and markdown in order to reduce the storage issues, with rendering upto 80% faster. Tech stack: React, Redux, NodeJS, MongoDB, JSON web tokens for authentication and more. *LINK*
- **Scriptag NPM package:** A Node package published to the official NPM repository installed with a single command, that could provide users with minimal, fully responsive portfolios. Pre-loaded with themes and UI libraries, the only changes it requires is to update the dummy data. Tech stack: NodeJS, React, MaterialUI, Bootstrap along with others. *LINK*
- **Minixo data summarization engine:** A flask app that integrates Natural Language Processing in order to summarize huge amount of text. It is integrated with machine learning models by Facebook based on CNN articles, and can be used for several types of text processing. Tech: Flask(Python), *HuggingFace* for data summarization, basic HTML for frontend. *LINK*
- **Fortlax.io:** A disposable chat-room that supports multiple devices and works with real time transmission channels for instant communication through websockets. It has been tested for latency across the planet (over TOR network) and still works with a minimal connection time of around 50ms. Tech: React, ChakraUI, SocketIO, WebSockets and JavaScript. *LINK*
- **Other projects:** Several other projects I've been working on are listed both on my portfolio *here* and Github *here*.

ACHIEVEMENTS AND HONORS

- Solved over 200 problems, secured connoisseur batches on Leetcode continuously for three months. *PROFILE*
- 3 star on Codechef (highest: 1617), global rank 92 in Starters-62 by, 26th October, 2022. Profile: *PROFILE*
- Secured a global rank of 5370 in Google Kickstart (Round F), max rating of 1033 on Codeforces. *CERTIFICATE*
- Created a face recognition app using python as a part of AI-for-India event by IIT Madras. *CERTIFICATE*
- Runners up in SIH, 2022, creating an app to predict the future growth rates of a particular nation. *CERTIFICATE*

CERTIFICATIONS AND OTHER EXPERIENCES

- **Open source contributions:** Contributed to *AsyncAPI*, an open source initiative by Linux Foundations, *Layer5.io*, *Alan AI*, and several other projects, reporting and fixing issues like *#478* and opening PRs that fixed valid reported bugs in the rest.
- **Setting up an open source society:** I've been enthusiastic and have been actively working towards building up a society for students of our university who are interested in contributing to several open source projects, checkout the organization *here*.
- **Certification in System Design and Large Scale Architectures:** Architecting Software Systems, building a technical stack by getting architectural insights into products like NodeJS, Redis, Cassandra, Kafka, Hadoop, Elastic Search, Amazon S3, deployment of large scale production systems using tools like Docker & Kubernetes and more. (July '22) *CERTIFICATE*