

Sahil Shubham

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I care a lot about Open Source, writing organized code and knowing what I don't know

Education

Indian Institute of Technology

B.Tech in Metallurgy & Materials Engineering

Kharagpur, India

2019 – 2023

Work Experience

FinsynthAI

May 2024 – Present

Full Stack Engineer | ReactJS, TypeScript, GraphQL, Terraform, Helm

- Founding Engineer at Finsynth, built Excel co-pilot enabling analysts to leverage existing financial models
- Architected multi-environment EKS infrastructure with Terraform and Helm, managing multiple microservices
- Implemented Argo DAG workflows and parallel execution patterns, achieving 40% reduction in model inference latency
- Added cluster-wide logging using Fluent-bit, custom Lua parser and S3, enabling efficient querying with AWS Athena
- Developed transaction-based IndexedDB persistence with request workers, ensuring reliable offline data processing

Entrepreneur First

July 2023 – January 2024

Entrepreneur in Residence

- Pursued entrepreneurship full-time as part of **Entrepreneur First's Graduate cohort**, \$10B total portfolio value
- Worked on **LLM evaluation & observability**, crafting solutions for real-time quality monitoring for RAG pipelines

Workduck

January 2022 – August 2023

Founding Engineer | ReactJS, Typescript, Zustand, Plate, Webpack

- Frontend engineer at Workduck, a startup with a vision to create an E2E knowledge management tool for product teams
- Led the development for web, setup mono-repo for chrome extension and webapp in React **using Webpack and Nx**
- Benchmarked browser storage types, ensured data sync across Chrome, localStorage, and IndexedDB via **Message API**
- Added features like public notes with **read-through cache**, web highlights by **Selection Object serialization**, etc.
- Optimized the extension's bundle, cutting cyclic and managing peer dependencies, **resulting in a 60% size reduction**
- **Improved team collaboration** via S3 snapshots, using websockets to broadcast CRUD events, and **shared workers**
- **Improved DX** by setting up changesets, and GitHub actions for yarn lock diffs and deployments to chrome store

Felvin Search

May 2021 – March 2022

Full Stack Developer | ReactJS, Redux, Styled-Components, NodeJS, Docker, AWS

- **First Engineer** at Felvin, a startup aiming to improve search experience through open-source community driven apps
- Developed integrations to give users **a singular search** through their personal documents for Pocket, Notion and Drive
- Dockerized the codebase to deploy on AWS ECS using GitHub Actions for Continuous Deployment, later moved to EKS
- Developed custom CLI to improve the developer experience and handle custom Webpack bundling for multiple packages
- Maintained the **open source repository** and conducted hackathons to grow the Discord community to **150+ developers**

Open-Source Projects

KGPyaar | ReactJS, TypeScript, Sass, Flask, MongoDB

February 2021

- Implemented ElGamal encryption on client side to make an E2E encrypted dating site for students of IIT Kharagpur
- Handled the **facebook account**, crafted posts, engaged with users and addressed feedback to grow to **950+ followers**
- Wrote **white paper** to clarify technicalities, resulting in more than **600+ registrations**, and **90 matches in 2 weeks**

Grameen-Setu | ReactJS, Typescript, Sass

March 2021

- Developed Grameen Setu, a progressive e-commerce platform to connect SMEs and Self-Help Groups in rural India
- Worked in a team of 4 to develop the platform **in 3 weeks** and tested robustness among real producers and consumers
- Won **gold for best Tech-Led Innovation for Rural Entrepreneurs** organized by Dhristee in InterIIT Tech Meet
- Went on to **win both the on campus round and the Dhaka Regional Summits** for the **Hult Prize 2022**

Volunteering & Technical Competitions

Open-Source Involvement

- At **MetaKGP**, contributed to and promoted multiple projects like **ERP Auto-Login** and **GYFT** to improve student life
- At **KOSS**, helped conduct workshops regarding Git, **Vim** and Python to spread Open Source culture in IIT Kharagpur
- Organized **KWoC**, a month long event for students to contribute to Open Source, **1200+ registrations & 750+ PRs**
- Revamped student council's website to show events, contacts and conduct elections, resulted in **25k visits in 3 weeks**

Inter-IIT Tech

- **Won gold** in InterIIT Tech 2022 for **Saasifi**, a graph-based analysis tool for SEC filings, built on top of **edgar-crawler**
- **Won Mercari large-scale system design event** at InterIIT Tech 2022 with a scalable hospital management system
- **Won InterIIT Tech 2023 gold** as the Development Captain, oversaw **200+ interviews** and **managed 10+ teams**