

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

June 2024 – April 2025

Full Stack Engineer | GraphQL, Node.js, Python, AWS, Terraform, Helm, Argo Workflows

- Second Engineer at FinsynthAI, a startup aiming to accelerate long shot financial research workflows inside of Excel
- Created production infrastructure from scratch**, building frontend & CI/CD, while leading customer onboarding
- Engineered Excel Add-in with GraphQL, implementing **fault-tolerant IndexedDB** storage and **data normalization**
- Architected & managed autoscaled EKS for **10+ services**, utilizing Helm templates and modular Terraform configs
- Reduced infra cost by 25%** by implementing mixed ASGs with arm instances, enabled by native multi-arch builds
- Introduced Argo** for Bedrock inference DAGs; cut self-hosted model **inference time by 78%** via time-sliced GPU

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 | React, Zustand, Plate.js, Webpack, Web Workers, Chrome APIs

- Frontend Engineer at Workduck, startup with a vision to create an E2E knowledge management tool for product teams
- Ported desktop features** to web/extension (Plate.js), streamlining onboarding and making it the **primary product**
- 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.
- Reduced extension bundle size by 60%** using madge and source-map-explorer for cyclic and peer deps analysis
- Enhanced cross-org sync** via S3 snapshots and websockets inside of shared workers to broadcast CRUD events
- 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 | React, Redux, styled-components, Node.js, 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

Sprout | Tauri, Rust, React, TypeScript, SQLite, SQLite-vec

Ongoing

- Built Sprout, a minimal, UX-focused daily note taking app that automatically **organizes information as you write**
- Implemented asynchronous vector embedding generation and semantic search using **SQLite-vec** for a powerful search

KGPyaar | React, TypeScript, Sass, Flask, MongoDB

February 2021

- Engineered an E2E encrypted dating platform, publishing **white paper** that drove **600+ student registrations**
- Led community engagement through **facebook page**, driving **950+ followers** and **90 successful matches in 2 weeks**

Grameen-Setu | React, TypeScript, Sass

March 2021

- Built Grameen Setu, an e-commerce platform for SMEs and SHGs, delivering a user tested solution **in 3 weeks**
- Secured **gold for Tech Innovation** at InterIIT Tech Meet and **won Dhaka Regional Summits** for **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**