

SK SOHAB

Kolkata, India

+917980114494 | sksohablocal@gmail.com | [linkedin.com/in/iitzshoab](https://www.linkedin.com/in/iitzshoab) | github.com/ITZSHOAIB | sohab.dev

Senior Software Engineer with 6+ years building AI-native products, developer platforms, and scalable full-stack systems. Experienced in taking ambitious ideas from R&D through production, shaping architecture, and enabling teams with reusable frameworks and tooling.

PROFESSIONAL EXPERIENCE

Skillsoft / Codecademy | Senior Software Engineer

June 2024 - Present | Remote, India

Tech Stack: Node.js, Next.js, React, TypeScript, Go, Ruby on Rails, GraphQL, LangGraph, MCP, A2A, Vectorless RAG, PostgreSQL, Redis, RabbitMQ, AWS, Kubernetes, OpenTelemetry

- Architected and launched **LX Studio Spark**, an agentic AI authoring platform that generates 8+ learning content types from uploaded documents; took it from proof of concept to production for **20+ enterprise customers**.
- Designed and engineered Spark's **in-house Vectorless RAG source-ingestion system**: a non-LLM ingestion pipeline that converts arbitrary document formats into heuristic trees and exposes tree-aware agent tools with in-memory BM25 search, improving grounding and citation fidelity while **saving hundreds of thousands of LLM input tokens** on large-document workloads.
- Shipped **Codecademy's Vibe Learning Platform** to **10M+ active learners** within **two months** by building a LangGraph-based agentic engine that generates full-stack, learn-by-building projects.
- Created **Agentor**, a reusable framework for multi-agent workflows, MCP tools, guardrails, source ingestion, conversation state, and LLM evaluations; reduced agent scaffolding for **8+ teams** and earned **CTO recognition**.
- Served as technical lead for Skillsoft's **first AI-native Builder pod**, a three-engineer team that owned product delivery end to end and shipped **two products in under six months**; the model expanded to **11 additional pods**.
- Built the frontend foundation for **LX Design Studio** with Next.js, React, TypeScript, reusable routing and design-system patterns, and modular integration across a shared monorepo.
- Built internal **AI developer tooling** and release automation, including **ACE workflows** for sharing reusable skills, subagents, and plugins across **15+ engineering teams**.

Ernst & Young Global Delivery Services | Software Engineer

August 2022 - June 2024 | India

Tech Stack: TypeScript, React, Next.js, Redux Toolkit, Node.js, NestJS, REST, GraphQL, Solidity, Hardhat, Ethereum, Polygon, zero-knowledge proofs, MongoDB, Docker, Azure Kubernetes Service, Jest, Supertest

- Built full-stack blockchain SaaS products - **EY OpsChain Contract Manager** and **OpsChain ESG** for the **EY Blockchain** ecosystem, automating contract and sustainability workflows on Ethereum with zero-knowledge privacy components.
- Developed REST/GraphQL microservices with NestJS and Node.js, containerized with Docker, and deployed via **Azure Kubernetes Service** and API Management.
- Implemented Starlight zApps and **ERC-1155 smart contracts** in Solidity, fixed information-security findings, and expanded unit, smoke, and end-to-end coverage with Jest and Supertest.

Tech Stack: JavaScript, React, Redux Toolkit, Node.js, Express, MongoDB, Java, Selenium, Appium

- Built MERN-stack applications for Strategy and Transformation initiatives using React, Redux Toolkit, Node.js, Express, and MongoDB across core product workflows.
- Contributed to Java BDD automation frameworks using Selenium and Appium, improving repeatable web and mobile regression testing.

TECHNICAL SKILLS

AI & Agentic Systems: LangGraph, LangChain, LlamaIndex, multi-agent workflows, agent harnesses, MCP, A2A, RAG, Vectorless RAG, BM25, heuristic document trees, source grounding, ingestion pipelines, guardrails, LLM evaluations

Languages & Frontend: TypeScript, JavaScript, Python, Go, Ruby, Java; React, Next.js, SvelteKit, Redux Toolkit, Tailwind CSS, Gamut, Module Federation

Backend & Data: Node.js, NestJS, Ruby on Rails, Express, GraphQL, REST, PostgreSQL, MongoDB, Redis, RabbitMQ, Kafka, Elasticsearch

Cloud, Delivery & Testing: AWS, Azure, Docker, Kubernetes, GitHub Actions, Jenkins, monorepos, Jest, Vitest, Playwright, Selenium, Appium

Blockchain: Solidity, Ethereum, Polygon, Hardhat, Viem, Ethers.js, Web3.js, zero-knowledge proofs

SELECTED PROJECTS & OPEN SOURCE

Plico | plico.sohab.dev

File-first TypeScript agent framework in active development: define identity in Markdown, compose skills, extend with typed tools, and keep workflows portable and version-controlled.

Rehype Code Group | rehype-code-group.sohab.dev

Production-ready Rehype plugin that turns neighboring code blocks or HTML into accessible tabs with ARIA semantics and keyboard navigation; **16K downloads in the last 30 days**.

Chaingent | chaingent.app

Agentic Web3 platform for generating, auditing, and deploying Solidity applications, combining multi-agent smart-contract generation with a guided launch workflow.

Cmuxup | github.com/ITZSHOAIB/cmuxup

Terminal-first AI coding workspace with a one-command, reproducible cmux layout for an agent, Git TUI, editor, and development terminal.

Hashtegrity | github.com/ITZSHOAIB/hashtegrity

TypeScript library for generating hashes, validating integrity, and monitoring files, directories, and off-chain data for unexpected changes.

CERTIFICATIONS

Microsoft Certified: Azure Fundamentals (AZ-900) | EY Blockchain - Bronze (2023)

EDUCATION

Bachelor of Science (Honours) in Computer Science

2016 - 2019 | Kolkata, India

Asutosh College, University of Calcutta