SK SOHAB

Software Engineer II (5+ Years)

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PROFESSIONAL SUMMARY

- **Innovative Full Stack Engineer with AI-Agent Expertise:** 5+ years of experience in end-to-end architecture, designing efficient RAG pipelines, driving Agentic AI-powered learning at Skillsoft across platforms like Codecademy, Percipio, and LX Studio. Led the design of microservice/micro-frontend systems and delivered foundational work in multi-agent AI infrastructure.
- **LX Studio Founding Architect & Framework Creator:** Spearheaded LX Studio from concept to production, building a reusable internal agent framework adopted org-wide. Streamlined complex dev workflows—integrating Guardrails, MCP, and efficient RAG pipeline—cutting agent build time dramatically.
- **Tech Forward & Community Focused:** Skilled in scalable frontend design with Module Federation, ZKP blockchain integration, and cloud-native systems. Active open-source contributor and author of popular NPM libraries driving adoption and innovation across teams.

WORK EXPERIENCE

Skillsoft | June 2024 – Present
Software Engineer II

- **Architected and led** the development of LX Studio, a next-gen agentic AI-driven learning experience platform, from the ground up—proposing and implementing its foundational architecture now used org-wide. Designed efficient RAG pipelines using different chunking strategies, rerankers on top of a large document based knowledge sources.
- **Designed and built** a custom agent framework NPM library adopted across app teams, dramatically reducing AI agent development time and integrating key systems like multi-agent workflow, Tool integration, Chat Storing conventions, MCP, Guardrails, and RAG pipelines. This work earned personal recognition from the CTO.
- **Engineered scalable frontend architecture** with a custom directory-based routing system, enabling smoother team onboarding and long-term maintainability. Promoted best practices for component-driven development and cross-team scalability.
- **Acted as de facto tech lead** in a flat team structure, mentoring peers and driving team-wide ownership, autonomy, and architectural quality through initiative and collaboration.
- **Delivered strategic enhancements** to flagship platforms like Codecademy and Percipio, improving system scalability, user experience, and internal development efficiency.
- **Modernized frontend integration** across enterprise apps through Module Federation, enabling seamless collaboration between independently deployed micro frontends.
- **Technologies**: Langgraph, Langchain, MCP, A2A, LlamaIndex, VectorDB, RAG, OpenAI, Module Federation, Nextjs, Reactjs, Gamut (In-house design library), TypeScript, Ruby on Rails, Ruby, Node.js, JavaScript, GraphQL, PostgreSQL, EFS, S3, Docker, Kubernates, RabbitMQ, AWS, Git, Github Actions, Jenkins, Jest, Vitest, Redux, Redux Toolkit, Module Federation, Webpack, RSpack, SWC

Ernst & Young Global Delivery Services | August 2022 – June 2024
Software Engineer

- Collaborated with other team members to develop and deploy full stack blockchain applications using Solidity, Hardhat, NestJS, React, and other technologies for BEC (blockchain.ey.com) platform.
- Worked on two products: [OpsChain Contract Manager](#) and [OpsChain ESG](#), which are SaaS products that automate and track real-world contract agreements and environmental, social, and governance (ESG) data on the public Ethereum blockchain with privacy (ZKP).

- Built RESTful and GraphQL microservices with Docker containers and integrated them with Azure Kubernetes Service and Azure API Management.
- Implemented zero knowledge proof applications (zApps) using Starlight and ERC-1155 smart contracts using Solidity.
- Fixed infosec issues and wrote end-to-end tests, smoke tests, and unit tests using Jest and Supertest.
- **Technologies**: Solidity, Blockchain, Smart Contracts, Hardhat, Git, Docker, Jest, Swagger API, REST APIs, GraphQL, NestJS, Redux.js, Redux Toolkit, React.js, Nextjs, Material-UI, styled-components, TypeScript, Node.js, JavaScript, MongoDB
- **Resources:** Azure Kubernetes Service, Azure API Management, Polygon Mumbai Testnet

Tata Consultancy Services | February 2020 – August 2022
Assistant System Engineer

- Built web applications using MERN Stack (React, Node, Express, MongoDB) from scratch for Strategy and Transformation (S&T) project.
- Used React/Redux (Redux Toolkit) for the frontend and Node/Express for the backend API for CRUD and other operations. Worked on Java BDD Automation Framework Development, which includes Selenium and Appium.
- **Technologies**: ReactJS, NodeJS, Express, MongoDB, ReduxJS, Redux Toolkit, Java, Selenium, Appium

TECHNICAL SKILLS

AI Agent Frameworks: Langgraph, Langchain, OpenAI, LlamaIndex, MCP, A2A, VectorDB, RAG, Multi-agent systems, Agent workflow design

Web & App Development: JavaScript, TypeScript, ReactJS, NextJS, Redux (incl. Toolkit), NextAuth, Material-UI, TailwindCSS, Shadcn-UI, Radix UI, Styled-components, Gamut, HTML, CSS, Flutter, ElectronJS

Backend & APIs: NodeJS, NestJS, ExpressJS, Flask, SocketIO, WebRTC, Ruby on Rails, REST, GraphQL

Blockchain: Solidity, Ethereum, Polygon, Hardhat, Ethers.js, Web3.js, Wagmi, Viem, ConnectKit, Rainbowkit

Testing & QA: Jest, React Testing Library (RTL), Selenium, Appium

Architecture & Patterns: Monolith, Microservices, Micro-frontend (Module Federation), BFF, Monorepo, DDD, BDD

Databases & Messaging: MongoDB, Postgres, Redis, Kafka, RabbitMQ

DevOps & Cloud: Docker, Kubernetes, Github Actions, Jenkins, Azure, AWS

Version Control & Collaboration: Github, Bitbucket, Azure DevOps

Other Languages: Ruby, Java, Python, C, C++

CERTIFICATIONS

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

EDUCATIONAL BACKGROUND

Bachelor of Science Honours on Computer Science (67.5%)
Asutosh College – University of Calcutta (2016 - 2019)

Higher Secondary Education (71.17%)
Tiljala High School (WBCHSE) (2014 - 2016)

Secondary Education (69.14%)
Tiljala High School (WBBSE) (2014)