Aayush Kumar Sahu

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EXPERIENCE

Software Engineer, *Tractable.ai* May 2025 – Jun 2026 | Noida, India

- Integrated third-party DMS and claims APIs, including transient session flows with cancellation handling, evidence template generation, and bridging vehicle identity data with customer records.
- Built document parsers for insurance packet types including subrogation and ARX formats, adding RTS invoice constructors, deduplication logic, and domain model extensions for new document and repair types.
- Architected and delivered a full webhook system end-to-end covering CRUD endpoints, Lambda handler, database models, payload validation, event types, and automated log partitioning to enable real-time event delivery to external dealer systems.
- Implemented scan lifecycle management with timeout and discard logic, Step Functions task token-based polling, thumbnail generation for live and historical scans, and status-driven event emitters.
- Automated CI/CD pipelines via GitHub Actions and managed multi-environment promotion cycles across experimental, preprod, and prod with versioning and QC checkpoints.
- Set up integration and E2E testing frameworks covering webhook delivery, session flows, and router endpoints.

TypeScript, NodeJS, React, Python, AWS

Founding Software Engineer(Full-Stack), *Beatoven.ai* Mar 2022 – Apr 2025 | India

- Built and launched Stripe for payments across the Frontend, Backend & Infrastructure increasing transaction efficiency and user satisfaction by 25%
- Helped in migration of our main composition module to AWS Lambda, enhancing scalability and reducing operational costs
- Refactored our main application code, enhancing user experience, boosting developer productivity, and reducing bugs
- Implemented CI/CD using GitHub Actions, streamlining deployment processes and reducing release times
- Managed user analytics to identify growth opportunities, driving product enhancements and user engagement
- Developed RESTful APIs in our backend, enhancing data retrieval efficiency and improving user experience
- Created internal tools with Retool and wrote Python scripts to analyze user data and track business metrics
- Managed user support and feedback, communicating directly with customers to resolve technical issues and improve product features
- Managed user authentication using AWS Cognito, ensuring secure access and enhancing user data protection
- Handled error tracking and monitoring with Sentry and Datadog to catch issues early and improve app stability
- Identified and resolved low database query performance using DynamoDB and Sentry, improving user experience of our tool, leading to faster load times and increased user satisfaction by 40%
- Monitored infrastructure using Squadcast and AWS, ensuring system reliability and reducing downtime incidents

NextJS, Tailwind, JavaScript, Python, Flask, AWS Cognito, DynamoDB, RDS, AWS Lambda, Stripe, Retool, Datadog, Sentry, Docker, Github Actions, Grafana, Mixpanel

Google Summer of Code Mentee, *AsyncAPI* Jun 2021 – Aug 2021

- Developed the Open-Source AsyncAPI diff project enhancing ease of change between AsyncAPI documents
- In use across different organisations, improving reliability of Event-Driven architecture
- Gathered feedback from the community regarding the tool improving the usability of the tool
- Worked on generating diffs, and presenting it in meaningful way

TypeScript, NodeJS

Full-Stack developer intern, *Basic Roots Consulting* Jun 2021 – Dec 2021

- Developed frontend UI using NextJS and RESTful backend APIs, enhancing user experience and system integration
- Utilized AWS services like S3, DynamoDB, and Amplify to enhance cloud technology capabilities, improving data storage and retrieval efficiency
- Implemented file uploading and retrieval processes using AWS S3, which streamlined data management and improved access speed
- Managed event-based data handling using queues, which improved system responsiveness and data processing efficiency

JavaScript, NodeJS, React, AWS S3, DynamoDB, Amplify

OPEN-SOURCE WORK

AsyncAPI, *Contributor*

- Maintainer of AsyncAPI Diff library
- TSC member of AsyncAPI organization
- Contributing to diff & CLI tool and working on bounty issues

The Odin Project, *Contributor*
- Helped improve The Odin Project's curriculum.
- Worked on discord bot for The Odin Project discord.

PROJECTS

phoenix.aayushsahu.com
A set of tools (dashboard, pastebin, notes, etc.) made for personal use (Phoenix, LiveView, Tailwind, Elixir, Postgres, fly.io)

MeowUI
A TUI for local tools such as project manager and real-time notifications (Rust, Phoenix Channels, WebSocket)

Battleship
Real-time multiplayer battleship game against a computer or someone else (Phoenix, LiveView, Elixir)

TabuRei
An Open-Source cross browser extension to manage tabs (Javascript)

SKILLS

Programming Languages: TypeScript, Python, Elixir, Rust, Golang, Scheme, Racket, SQL, Bash/Shell **Web:** NextJS, React, Tailwind, Svelte, NodeJS, Deno, Bun, Flask, Express, GraphQL, Phoenix Framework, Phoenix LiveView **Infrastructure and Databases:** AWS, MongoDB, Postgres, CI/CD, Github Actions, Linux, Redis, Docker **Tools:** Vim, Git, Figma

EDUCATION

B.Tech, *Jaypee Institute of Information Technology* Aug 2019 – May 2023 | Noida, India

MISCELLANEOUS

Core Team Member, *JIIT Open-Source Developers Circle* Sep 2020 – May 2023
- Gave talks on Open-Source, and Git
- Helped in conducting weekly meetups
- Organized various events to foster the open-source culture in our college

Speaker, *AsyncAPI Conference 2021*
Gave talk about my GSoC project

Speaker, *DelhiFOSS 2022*
Gave talk about Elixir and what makes it different.