

HIMANSHU SINGH

Bengaluru, India

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Summary

Software Engineer with 2+ years of experience building internal platforms, infrastructure tooling, and full-stack applications. Focused on developer productivity, infrastructure visibility, and automation using React, Python, AWS, and Kubernetes.

Experience

Guidewire Software

Jan 2024 – Present

Software Engineer I (Intern: Jan – May 2024, FTE: Jun 2024 – Present)

Bengaluru, India

- Built **React** dashboards for infrastructure usage monitoring, serving **50+ internal engineers** with real-time visibility into **AWS** resource allocation and cost metrics.
- Developed secure service APIs with **role-based access control** and **audit logging**, reducing unauthorized access incidents across staging and production environments.
- Automated weekly operational reporting using **Python**, **MySQL**, and **Slack APIs**, cutting **manual tracking effort by 60%** and eliminating reporting delays for stakeholder teams.
- Built **Kafka**-based event-driven integration for cloud infrastructure lifecycle tracking, including **schema design**, listener lifecycle management, and **reconciliation APIs** used for billing and compliance reporting.
- Maintained **>80% unit test coverage** through rigorous testing practices, code reviews, and CI enforcement.

CV Owl

Oct 2022 – Oct 2023

Full Stack Developer Intern

Remote

- Improved platform engagement by **25%** through performance optimization and user flow redesigns across the resume-building workflow.
- Led a 3-member design team; integrated **AWS S3** and **CloudFront** for static asset delivery, reducing page load times by **40%**.

Projects

Cloudwire – AWS Infrastructure Visualizer | *Python, FastAPI, React, Boto3, NetworkX*

Mar 2026

- Built and **open-sourced** a full-stack AWS infrastructure visualization tool (**PyPI-published**) with **24 dedicated service scanners**, relationship inference via **IAM policy parsing**, env var references, and event triggers.
- Engineered a custom **SVG graph engine** with **VPC topology mapping**, blast radius analysis, **Terraform state import**, and multiple layout modes — runs fully local with zero data leaving the user's machine.

Feature Flow – AI-Powered Jira Automation | *Flask, React, Docker, MCP, LLMs*

Sep 2025

- Built a full-stack tool that converts Aha! feature context into structured **Jira stories using LLMs**, reducing **manual story writing by 90%** with dry-run validation, board-aware field assignments, and Excel/Jira export.
- Architected an **MCP server gateway** (10 tools) enabling **Claude Desktop/Cursor** integration, with provider-based Aha! and Jira clients and customizable prompt system requiring no code changes.

Open Source

HyperSwitch (Juspay)

Oct 2023 – Nov 2023

Contributor – Production-grade Payment Orchestrator

Remote

- Improved backend request routing in a production-grade open-source payment orchestrator (**Rust**); collaborated with core maintainers to implement a new identifier structure, increasing connector compatibility across payment providers.

Technical Skills

Languages: Python, JavaScript/TypeScript, Java, Go, Rust, SQL

Frameworks: React, FastAPI, Flask, Node.js, Express.js, Spring Boot

Cloud & Infra: AWS (Lambda, S3, DynamoDB, SQS, ECS, IAM, VPC), Docker, Kubernetes, Terraform

Data & Messaging: Kafka, MySQL, MongoDB, PostgreSQL, NetworkX

Tools & Platforms: Git, GitHub Actions, TeamCity, MCP, Postman, Figma, SAML/SSO

Education

Shiv Nadar Institute of Eminence

Aug 2020 – May 2024

B.Tech in Electronics and Communication Engineering, 7.5 CGPA

Greater Noida, India

Achievements

- **Winner** – “Best Beginner Hack”, MLH Hackathon (200+ participants).
- **2nd Place** – Design-a-thon and Front-a-thon, Technical Fest at SNU.