

DIVYANG CHAUHAN

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SUMMARY

Senior Backend Engineer & Applied AI Engineer with 5+ years of software experience building and owning production backend systems, multi-tenant SaaS and cloud infrastructure. Developed provider-neutral, tool-using agent systems with evaluation harnesses. Led a 9-person team shipping security software for multinational banks. OSCP certified.

PROJECTS

Pramana: Multi-agent smart-contract vulnerability scanner & evaluation harness

- Designed provider-neutral three agent system with context isolation and tool usage that produces executable PoC
- Built an eval harness covering 14 labeled vulnerabilities in 11 classes with patched negative control, with baselines and cost/latency tracking. Benchmarked the agents; best runs found 13/14 vulnerabilities with 0 false positive

DiffVouch: AI code-review agent skill & CLI

- Built a portable AI code-review Agent Skill and CLI that analyzes Git changes, produces actionable findings and weighted ratings, and publishes GitHub PR reviews

PROFESSIONAL EXPERIENCE

Kleros, Remote

Feb 2024 - Present

Backend Engineer

- Led splitting of monolithic NestJS backend into horizontally scalable API and single instance automation services: established the monorepo and migrated 57K+ production events across databases with ~1 minute of downtime
- Built Atlas's NestJS backend from scratch, designing runtime-configurable event ingestion across 3 production EVM chains, using Node.js EventEmitter for asynchronous downstream processing by 23+ consumers
- Caught an unbounded RPC hot-path dependency during code review and rebuilt the path around synchronized database reads, removing the DoS risk before production
- Automated dispute progression and juror staking across networks; used transaction simulation and batched calls to improve execution reliability and reduce cost by ~22%

NST Cyber, Remote

Software Engineer Team Lead

Jan 2023 - Feb 2024

- Led a cross-functional team of 9 building Assure v2, a multi-tenant vulnerability-triage and threat-surface management platform sold directly to multinational banks and white-labeled by cybersecurity resellers
- Built an AI-assisted APT attribution workflow using the OpenAI API to map threat-surface to threat actors
- Replatformed Assure from OutSystems, eliminating ~\$200K/year in platform costs while enabling 3-level tenancy, data isolation modes, and white-labeling; authored ~70% of the backend and shipped in six months
- Architected Assure v2's authorization model using CASL.js: 5-role hierarchical RBAC plus ABAC (Attribute-Based Access Control), tenant isolation, and per-user project access
- Wrote Terraform for Assure v2's core AWS infrastructure, reducing deployment time from ~2 hours to 10–15 minutes; introduced Cypress E2E tests, reducing full regression from hours to under 30 minutes

Software Engineer

Mar 2021 - Jan 2023

- Delivered Assure v1 concept to production in 3 months, authoring 80% of codebase and onboarding first 5 enterprise clients; rapid adoption exceeded platform limits, driving decision to rebuild on scalable architecture
- Developed Tigress's Django REST Framework backend from scratch; designed a MySQL schema supporting 10M+ records and created a serializer abstraction that reduced new endpoint development time by 60%
- Eliminated distributed-task bottleneck in Tigress's scanning engine by architecting cross-instance Celery dispatch, reducing scan time by 75% and scaling the platform from 10 to 100 daily scans without infrastructure changes

EDUCATION

IIT Bombay, B.Tech coursework, Metallurgical Engineering & Materials Science

2016

SKILLS

AI Systems: agent orchestration, tool calling, structured outputs, context isolation, evaluation harnesses, regression testing

Languages & Databases: Python, TypeScript, JavaScript, SQL, PostgreSQL, MySQL, MongoDB

Frameworks: Node.js, NestJS, Django REST Framework, Pydantic, GraphQL, React, Next.js

Infrastructure & Messaging: AWS, Cognito, Lambda, Docker, Terraform, CI/CD, Celery, Kafka, RabbitMQ