





Reeshabh Kumar Ranjan

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EDUCATION

- Indraprastha Institute of Information Technology Delhi** Delhi, India
Bachelors in Computer Science Engineering, CGPA: 9.01/10 2017 - 2021
Courses: Software Development using Open Source, Native Android App Development in Java, Security Engineering, Foundations of Computer Security, Operating Systems, Computer Networks, Databases




EXPERIENCE

- multithread.ai**  Remote
Senior Software Engineer May '24 - Present
Techstack: Typescript, Javascript, AWS (ECS), GCP (Cloud Build, Cloud Run) Node.js, PostgreSQL, MongoDB
 - Backend and devops engineer for an early-stage US-based startup in the music-tech industry.
 - Devops engineer for an early-stage UK-based AI startup in the productivity-tech industry.
 - Backend engineer for a series F US-based startup in the food-tech industry.
- nsave (YC 2022 | Sequoia Capital | FinTech | London)**  Remote
Founding Software Engineer Mar '23 - Mar '24 (1 yr)
Techstack: NestJS, Apache Kafka, Docker, AWS and PostgreSQL
 - Hired as the first engineer working closely with the CTO until the team reached 5 engineers.
 - Revamped the onboarding flow so that microservices had clear ownership, and future changes can be made easily.
 - Optimised the users' cases management for the back office enabling the operations team to communicate with the users directly in-app.
 - Set up the unit testing framework for codebases using jest and automock (for database mocking).
 - Documented the APIs and set up easy-to-use Postman collections and flows for the engineering team.
 - Daily tasks include adding new features, fixing bugs and making design decisions.
- MathWorks**  Remote
Software Engineer Jul '21 - Mar '23 (1 yr 8 mos)
Techstack: Python, Docker, Ansible, Hashicorp Vault, Javascript, MongoDB, C, GitLab Ops and OpenStack
 - Migrated internal applications from HTTP to HTTPS.
 - Set up Hashicorp Vault using Terraform for secrets management for apps to be deployed on AWS.
 - Developed an internal tool in Python to configure the internal cloud hosted using OpenStack.
 - Developed an Express.js + MongoDB backend for an internal dashboard application.
 - Did an exploratory and hands-on study on writing a C driver for a temperature sensor for Raspberry Pi.
- OffTrade**  Delhi, India
CTO Jan '20 - Jun '21 (1 yr 6 mos)
Techstack: Django, FastAPI, SQLAlchemy, AWS, Hashicorp Vault and Redis
 - Wrote the entire backend using Django and FastAPI (two microservices)
 - Set up CI/CD to test and deploy on AWS.
 - Integrated with the following third-party APIs: PayU (payments backend), Firebase (notifications backend), Hashicorp Vault (app secrets backend), Google Sign In and Datadog (site monitoring backend).
 - Configured DNS and DDoS protection using Cloudflare.

PUBLICATIONS

- VoIP Vanguard: A Practical FrontLine Defense Against VoIP Identification Attacks in Tor:** NSS-SocialSec 2024 

PROJECTS

- Research Mentoring Platform - Open Source online mentorship webapp** 
Worked for two semesters to write the **backend** of a mentorship platform. Later hired, delegated work and **mentored 6 interns** over a span of 1.5 years. The final product was handed over to **ACM India** (the Indian branch of the Association for Computing Machinery, focused on advancing computing) . **Techstack:** Django, Django Rest Framework
- Academic Portal for IIIT-Delhi, India:** Worked for a summer to develop the Self Growth and Community Work registration/logging website **backend**, actively being used by around **3000 students** and the academic department of IIIT-Delhi daily. **Techstack:** Django, Django Rest Framework
- OSRTC Bus Ticket Management:**
Worked for two months on the **backend** development of a bus ticketing system used by **the state government of Odisha, India**. **Techstack:** Django, Django Rest Framework
- Social Media App** 
Worked for two months on the **backend** development of a social media platform which **later went to market**. **Techstack:** Django, Django Rest Framework