

SAMARTH RAWAT

Dual Degree (B. Tech + M. Tech) | NIT Rourkela 2025

@ samarthrawat1@gmail.com samarthrawat1 +919772359443

in samarthrawat1 samarthrawat1

EDUCATION

Dual Degree (B.Tech and M.Tech) in Chemical Engineering

National Institute of Technology, Rourkela

2020-2025 Rourkela, Odisha

EXPERIENCE

Founding Engineer | Infrastructure & Backend

Tensorfuse (YC W24)

July 2025 – Present Bengaluru, IN

- Designed and implemented the scalable core backend on **Async Django**, integrating structured logging and paginated APIs that dynamically query the **Kubernetes API**, improving customer experience.
- Integrated Kubernetes extensions – **Knative** and **KEDA**, enabling autoscaling based on GPU metrics and scale-to-zero capabilities, which **significantly reduced infrastructure costs**.
- Authored a technical blog on **Reducing GPU cold start time**, which increased organically driven traffic by **23%**.
- Improved **AWS CloudFormation** templates for **one-click provisioning** of GPU-enabled EKS clusters, improving user onboarding experience.
- Served as a **Forward Deployed Engineer**, directly supporting clients to resolve production issues and optimize deployments.
- Technology Used - **Django (Async)**, **Kubernetes**, **AWS**, **CloudFormation**, **vLLM**, **redis**, **RQ**

Founding Engineer | Devops & Cloud

AlchemystAI

April 2024 – June 2025 Bengaluru, IN

- Collaborated with **CEO and CTO** to secure **\$300k in funding** in the first round, aligning technical capabilities with business objectives to attract investors.
- Led the integration of third-party platforms such as **HubSpot**, **Slack**, and others, enhancing the platform’s functionality and streamlining user workflows.
- Managed end-to-end **DevOps operations**, including hosting servers and deploying **large language models (LLMs)**, ensuring scalable, secure, and reliable infrastructure.
- Orchestrated Multi-Cluster deployment on **Google Kubernetes Engine** with **rabbitmq** and **kafka** configurations to improve scalability and deployment time
- Implemented **robust technical guidelines** and comprehensive **documentation** to standardize development practices, ensuring **scalable and maintainable codebases**, improving team efficiency, and reducing onboarding time for new developers by **33%**
- Technology used - **FastAPI**, **Modal platform**, **GitHub Actions**, **Flask**, **Azure VM**, **Kubernetes**

ACHIEVEMENTS

- National Finalist at GE HealthCare PCC Challenge’23
- Consistently earned perfect client ratings, generating **\$5,000+ revenue** from global clients across the **US, UK, Spain**, and more on **Fiverr**.

PROJECTS

AxisHR

- Developed an **LLM-based Candidate screening platform** with automated CV screening, pre-interview question generation, and scoring for efficient HRops.
- Used **Google Cloud Run** for scalable and serverless hosting.
- Technologies used - **Django**, **JavaScript**, **Google Cloud Run**
- Github - [samarthrawat1/axisHR](#)

Redfin Scraper - [Link](#)

- Built a website using **Flask** and **JavaScript** to scrape property data from **Redfin.com** and display it in a tabulated form.
- Developed a feature using **pyXL2** that allows the scraped data to be downloaded as an **.xlsx** Excel file.
- Used **SQLite3** to store data and hosted the website on a customized **Google Cloud N2 Virtual Machine**.
- Created a **Zapier Zap** to auto-populate an Excel sheet when a new link is added/edited via an encrypted API endpoint.
- Technologies used - **Flask**, **JavaScript**, **SQLite3**, **Google Cloud Platform**, **Zapier**
- Github - [Samarthrawat1/redfin-scraping-website](#)

Automated Reservation Program

- Engaged with a **US-based client** to understand and gather requirements for automating Spanish consulate reservation bookings
- Developed a bot using **Python** and **Selenium** to check for reservations and automatically book them, utilizing file-based logging.
- Hosted the bot on a **Standard B1ms Azure Virtual Machine** to run continuously at randomized intervals using a sine function.
- Automated email notifications via **SMTP**, sending emails to a list when reservations were completed.
- Technologies used - **Python**, **Selenium**, **Azure**, **SMTP**

TECHNICAL SKILLS

- Programming Languages:** C++, Python, GoLang, Azure Az
- Industry Knowledge:** Object Oriented Programming, Data Structures, and Algorithms, Database Management Systems, Operating Systems, Computer Networks
- Frameworks and Libraries:** Django, Flask, Selenium, BeautifulSoup4, pypdf2, openpyxl
- Tools / Platforms:** Git/GitHub, Azure, AWS, GCP, Docker, Celery, Kubernetes, KEDA, Knative

CODING PROFILE

- Leetcode: [Samarthrawat1](#)
- hackerrank: [Samarthrawat1](#)
- Achieved a **global rank of 534** in CodeChef Starters 13C contest
- Google Cloud Innovator - **12 Badges**