Karan Goel

Software Engineer

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Summary

Engineer with 3 years of experience in SRE, DevOps and Cloud infrastructure, and 1+ years in large language models (LLMs) through hands-on research and applied projects. Skilled in Python, cloud architecture, and MLOps, I specialize in building scalable, reliable systems that merge infrastructure with machine intelligence. Eager to contribute to roles focused on SRE, DevOps and data-centric systems.

Experience

DevOps/SRE Engineer, Flipkart — Bengaluru, India
May 2021 – June 2023

- Optimized cloud infrastructure, improving system reliability and scalability across services.
- Led a security initiative that reduced incidents by 20% company-wide.
- Developed analytics dashboards for usage tracking and cost optimization, increasing cloud efficiency.
- Maintained Looging Platforms like ELKs, Grafana and Newrelic for observability.

Software Engineer Intern, Cleartrip — Bengaluru, India
Mar 2020 – June 2021

- Maintained and deployed microservice systems with responsibilities across patching, deployment, and monitoring.
- Managed multi-cloud infrastructure (AWS, GCP, Azure) with a focus on cost efficiency and uptime.
- Improved CI/CD pipelines, reducing deployment time and operational overhead.

Education

M.Sc. in Computer Science, University of Wollongong — NSW, Australia
Graduated: June 2025
Focus: Machine Learning, Big Data, and Software Engineering
B.Tech in Computer Science, Chitkara University — HP, India
Graduated: June 2021
Focus: Software Engineering

Skills

Technical

- **System Management & Automation:** Unix, Linux, Ansible — automation-focused workflows for scalability, reliability, and uptime.
- **Programming & Scripting:** Python, Java, JavaScript, Bash — developing robust, modular pipelines and backend systems.
- **Cloud Platforms:** AWS, GCP, Azure — experience with scalable, cost-efficient cloud infrastructure and automation tooling.
- **DevOps & Monitoring:** Kubernetes, Docker, Terraform, ELK Stack, New Relic, Grafana — infrastructure-as-code (IaC), CI/CD, and observability.
- **AI & System Engineering:** Transformers, LangChain, LLMs — practical experience with modern AI frameworks via academic and open-source projects.

Soft Skills

- Analytical thinker, quick learner of new technologies, and collaborative team player.

Projects

Most of my work is available on GitHub: github.com/kgoel59

Capstone Project – Irrational Generative Agent   *Sep 2024 – Jun 2025*
A cognitive agent framework simulating rational and irrational behavior using dual-process theory. The system incorporates personality, memory, emotion, and cognitive biases to model realistic decision-making. Includes an interactive interface and is deployed on the cloud for real-time experimentation.
Tech: Python, LangChain, OpenAI API, Streamlit, GCP
Demo: Video · GitHub: kgoel59