

# KARAN GOEL

DevOps Engineer

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## WEBSITES AND SOCIAL LINKS

LinkedIn: <https://www.linkedin.com/in/kg59/>

Personal Website: <https://karangoel59.com/>

GitHub: <https://github.com/kgoel59>

## PROFESSIONAL SUMMARY

Engineer with over three years of experience in Site Reliability (SRE), DevOps, and cloud infrastructure, complemented by more than a year of hands-on research and applied projects involving large language models (LLMs). Proficient in Python, cloud architecture, and Machine Learning, specializing in the development of scalable and reliable systems that seamlessly integrate infrastructure with machine intelligence.

## WORK HISTORY

07/2024 - 07/2025	<b>AI Researcher</b> University Of Wollongong, Australia <ul style="list-style-type: none"><li>Developed and managed 20+ AI agents to monitor and analyze behavioral patterns.</li><li>Maintained robust CI/CD pipelines for seamless deployment of models and the simulation environment.</li></ul>
05/2021 - 06/2023	<b>DevOps/SRE Engineer</b> Flipkart, Bengaluru, India <ul style="list-style-type: none"><li>Designed, implemented, and managed Kubernetes clusters, automated CI/CD workflows with Bitbucket Pipelines, and provisioned scalable infrastructure using Infrastructure as Code (Terraform).</li><li>Led an initiative to deploy isolated development environments by provisioning multiple VPCs across teams, ensuring security, scalability, and streamlined collaboration.</li><li>Developed analytics dashboards for usage tracking and cost optimization, increasing cloud efficiency and quality assurance.</li><li>Maintained logging platforms like ELK, Grafana, and New Relic for observability.</li></ul>
03/2020 - 06/2021	<b>Software Engineer Intern</b> Cleartrip, Bengaluru, India

- Analysed and created system diagrams to support infrastructure and development teams.
- Tested 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.

## EDUCATION

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2017 - 2021	Chitkara University, Baddi B.Tech in Computer Science Major: Software Engineering
2023 - 2025	University of Wollongong, Wollongong Masters in Computer Science Major: Machine learning and Software Engineering

## SKILLS

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System administration and automation	Programming in Python, Java, and JavaScript
★★★★★	★★★★★
Cloud infrastructure management	Container orchestration and monitoring
★★★★★	★★★★★
AI and Machine Learning	QA and Testing
★★★★★	★★★★★

## PROJECTS

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### Irrational Agents

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 decisionmaking. Includes an interactive interface and is deployed on the cloud for real-time experimentation.

Tech: Python, LangChain, OpenAI API, Streamlit, GCP

### voltaire

Obsidian plugin that organizes your knowledge base by dynamically generating semantic connections through probing questions, inspired by Enlightenment thinking and modern NLP.

Tech: Typescript, Vector Database, LLMs, Obsidian