

BHARAT AGARWAL

📍 Gurgaon, India 🔗 <https://bharatagarwal.io> ☎ +91 9811718987 ✉ bharatagarwal@gmail.com

EXPERIENCE

Jan 2025 – present
Gurgaon

Qolaba AI, Lead AI Engineer

I am in charge of data science research and AI solution implementation for the company. To date, I have done the following:

- Architected a knowledge graph with 5000+ nodes that establishes dependencies between topics and questions. This was for the 11th and 12th grade CBSE science curriculum.
- Redesigned the company's API platform. Improved RESTfulness of routes, simplified job worker architecture, and factored out dependencies like LiteLLM. Decreased response times from 30s to under 9s.
- Delivered solutions for ed-tech clients, including pedagogy-enriched timestamps for educational videos, and multilingual subtitles/dubbing for academic lectures. This reduced manual effort from 24 hours to 3 minutes per video
- Built an intelligent sales agent, that validates leads and customises outreach for clients.

Stack: FastAPI, Python, Gemini SDK, Langfuse, Neo4J, n8n, Lovable

Jul 2024 – Jan 2025
Bengaluru

Shopify, Software Engineer (Infrastructure)

My team maintained a source-of-truth for all of Shopify's infrastructure. I managed autoscaling services as part of scale testing for Black Friday. Following Kubernetes best practices, we scaled up to 2.4m cores that handled up to 4.7m requests per second at their peak.

Stack: Kubernetes, Rails, Hotwire, Temporal, Buildkite

Jan 2024 – Apr 2024
Remote

Freelance, AI Engineer

Developed GoldieVet [🔗](#), a transcription tool for veterinarians using Django and React Native, making use of Deepgram and OpenAI APIs. This reduced time for making case records from hours to minutes.

Apr 2020 – Aug 2022
Bengaluru

Atlassian, Software Engineer (Infrastructure)

- Increased adoption of chaos engineering experiments by automating our 'war game' process.
- Propagated network turbulence using AWS SSM documents, working within framework of the company's internal PaaS.
- Handled high-severity incidents as part of on-call roster for Jira Server → Cloud Migrations.

PATENT [🔗](#) : Graph-based journey recorder for Confluence, built by a team of four

Stack: Golang, Java/Kotlin, Spring Boot, Splunk, SignalFX, DynamoDB, SQS, Chaos Toolkit

Oct 2019 – Mar 2020
Remote

Mothership, Co-creator & Software Engineer [🔗](#)

Mothership is an open-source platform-as-a-service designed to democratize the process of building a PaaS. I built this as part of a team of three.

- Programmatically provisioned servers on DigitalOcean with Docker Machine
- Containerised applications for machine instances using cloud-native buildpacks

Read the case study for Mothership at <https://mothership.live> [🔗](#)

Stack: NodeJS, DigitalOcean, Docker, Docker Swarm, WebSockets, Heroku Buildpacks

Sep 2015 – Aug 2018
Bengaluru

Self Employed, Architect [🔗](#)

Collaborated with the 'Disorient' camp to design spaces for Burning Man '17 & '18.

EDUCATION

Sep 2022 – Dec 2023

Bradfield School of Computer Science, Computer Science Intensive program [🔗](#)

Aug 2009 – May 2015

School of Planning and Architecture, Bachelor of Architecture