BHARAT AGARWAL

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

SKILLS

Languages
Python, Golang, Java/Kotlin,
C, Assembly, JavaScript

Tooling
FastAPI, AWS, Kubernetes, CI/CD
React Native, Splunk/SignalFX, Rails

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. Till 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 their API platform. Improved RESTfulness of routes, simplified job worker architecture, and refactoring out dependencies like LiteLLM. Decreased response times from 30s to ~9s.
- Delivered solutions for ed-tech clients, including pedagogy-enriched timestamps for educational videos, and multilingual subtitles/dubbing for academic lectures. This reduces manual effort from 24 hours to 3 minutes per videos.
- 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, playing a part in scale testing for Black Friday, and ensuring Kubernetes best practices. We scaled up to 2.4m cores that handled upto 4.7m requests per second at its peak.

Stack: Kubernetes, Rails, Hotwire, Temporal, Buildkite

Jan 2024 – Jun 2024
Remote

Nova Practice Solutions, Contract 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 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 in 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 2018 – Sep 2019 Bengaluru	**Self Employed,** Full Stack Developer Developed several personal and open-source applications with technologies such as Ruby, Node.js, Rails, React and Sinatra.
Sep 2015 – Aug 2018 Bengaluru	**Self Employed,** Architect ⬠ Collaborated with 'Disorient' camp to design spaces for Burning Man '17 & '18.

EDUCATION

Jun 2022 – Dec 2023	**Bradfield School of Computer Science,** Computer Science Intensive program ⬠
Aug 2009 – May 2015	**School of Planning and Architecture,** Bachelor of Architecture