

Aryan Verma

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Experience

Project Engineer (AI Solutions), Wipro – Bengaluru Mar 2026 – Current

- Building **production AI agents** and multi-step **agentic workflows on Azure AI Foundry** for enterprise clients.
- Owning end-to-end delivery: prompt design, tool orchestration, (**Python/FastAPI**) backend integration, and deployment on **Azure Cloud**.
- Working across the full stack (**Python backends, REST APIs, and frontend integration**) to ship coherent AI-powered product experiences.

Maintainer, EmbeddedChat (Rocket.Chat) – Remote Aug 2026 – Current

- **Maintainer** of EmbeddedChat, Rocket.Chat's embeddable chat widget, following completion of GSoC 2026; actively reviewing PRs from new contributors.

Google Summer of Code Developer 2026, Rocket.Chat – Remote May 2026 – Aug 2026

- Modernized **EmbeddedChat**: full monorepo upgrade (**React 19, Node 22 LTS, Storybook 8**) and migration off the legacy `@rocket.chat/sdk` onto `@rocket.chat/ddp-client`
- Shipped **Matrix federation support** end-to-end (single mode prop enabling live cross-server messaging)
- Built `@embeddedchat/ai-adapter`, a standalone provider-agnostic package (OpenAI, Gemini, Ollama), and a **generative UI component generator** that turns plain-English descriptions into live, drag-and-droppable Layout Editor components.

Open Source Contributor, Rocket.Chat – Remote Nov 2025 – Mar 2026

- **Designed and implemented Matrix federation** support enabling cross-platform federated messaging, the anchor contribution that established the GSoC mentorship.
- Built a **pluggable AI adapter** architecture and modernized the API layer, fixing deprecated endpoints and WebSocket ghost sessions.

Software Intern, Bharat Electronics Limited – Ghaziabad, Uttar Pradesh July 2023 – Sept 2023

- Built automated data pipelines and normalized **PostgreSQL (PostGIS) schemas** for a CBRN Hazmat Vehicle real-time geospatial detection system under BEL's R&D division.

AI & Engineering Projects

EmbeddedChat – Generative UI Component Generator github-repo

- Built a **generative UI component generator** for EmbeddedChat: a schema-constrained LLM pipeline that turns a plain-English description into a live, drag-and-droppable component in the Layout Editor, emitting validated UI-Kit blocks.

Grammar Scoring Engine github-repo

- End-to-end speech + NLP pipeline predicting grammar proficiency from audio; achieved 0.676 Pearson correlation across 5-fold CV using Python + PyTorch.

Skills

Languages: Python (primary), JavaScript, TypeScript, SQL

AI/LLM: LLM agents, RAG, prompt engineering, LLMops, Azure AI Foundry, Vertex AI, Gemini, LangChain

Frontend: React, React Native (mobile UI), Next.js, Storybook, Streamlit

Backend: Node.js, Express, FastAPI, Flask, REST APIs, WebSockets, DDP protocol

Databases: PostgreSQL (PostGIS), MySQL, MongoDB, Redis

Cloud & DevOps: Azure, GCP, OCI, AWS, Docker, CI/CD, Git

Publications

Decentralized Voting System Using Ethereum Blockchain May 2025

Aryan Verma, Aman Shukla

10.5281/zenodo.15735373

Certifications

- OCI Certified Architect Associate **1ZO-1072-25** | OCI Data Science Professional **1ZO-1110-25**
- Oracle Database@AWS Architect Professional **1ZO-1146** | OCI 2025 Developer Professional **1ZO-1084-25**

Education

Galgotias University, BTech in Computer Science & Engineering

Aug 2021 – June 2025

IIT Madras, Foundations in Data Science and Programming

Sept 2021 – Sept 2023