Aryan Roy

Software Engineer

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Professional Experience

Outlier.ai   Nov 2024 – Sept 2025
AI Quality Specialist (Independent Contractor)

- Evaluated large language model outputs and delivered structured qualitative feedback to improve accuracy, relevance, and safety.

- Identified hallucination patterns and output inconsistencies, contributing actionable insights to improve model alignment with quality thresholds.

- Conducted detailed analysis to assess nuanced technical and domain-specific responses, supporting high-quality AI training data curation.

Education

Vellore Institute of Technology   Sept 2022 – July 2026
B.Tech in Computer Science Engineering (Data Analytics)

Skills

Programming: Python, Java, JavaScript
Web Development: React, Node.js, Express, REST APIs, Authentication
Databases: PostgreSQL, MongoDB, Redis, Query Optimization
Cloud & DevOps: AWS, GCP, Docker, CI/CD, Cloudflare
Data & AI: Data Analysis, Power BI, LLM APIs, Prompt Engineering

Projects

Faculty Ranker Platform   *React, Node.js, MongoDB, Atlas Search*

- Developed a full-stack faculty discovery platform with search, filtering, pagination, and profile views using React and RESTful APIs.

- Implemented MongoDB Atlas Search with aggregation pipelines to enable efficient multi-field and fuzzy text search at scale.

- Designed backend services with scalability and performance considerations, including server-side pagination and optimized query limits.

- Applied security-aware development practices such as input sanitization, controlled data exposure, and documented architectural trade-offs.

Discord Moderation & Anti-Raid Bot   *Python, Discord API, Event-Driven Systems*

- Designed and deployed an event-driven Discord bot with automated moderation and server management capabilities.

- Implemented an anti-raid detection system to identify abnormal join and message patterns and trigger real-time mitigation actions.

- Engineered rule-based enforcement, permission-aware controls, and automated moderation workflows to maintain server stability during high-traffic events.