Aayush Bhat

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Portfolio: aayush-portfolio-390a.onrender.com

Summary

Backend and data engineer with production experience in distributed backend systems, RESTful APIs, and event-driven pipelines (Python, SQL); ships Spark/Parquet platforms on AWS and Azure.

Experience

Nagarro Gurugram, India
Associate Software Engineer Sep 2026 – Present
Associate Software Engineer Trainee Jan 2026 – Sep 2026

- Built backend services and REST APIs using **Python** and **FastAPI** with **DuckDB** zero-copy OLAP queries over **SQL** data.
- Processed daily streaming telemetry events with **PySpark** and built window-function validation across **150+** streams with watermark-based correctness.
- Managed production deployments and **GitHub Actions** CI/CD; used **Azure Monitor** for system health and automated batch jobs across **85+** tables.
- Co-built an **Azure Data Factory** and **Azure SQL** medallion POC for simulated EV-charger telemetry, with **8** pipelines, a **12**-rule exception layer and packet-gap detection, **15** data-quality checks, and a **6**-page **Power BI** report.
- Co-built a **PySpark** and **Delta Lake** medallion POC for simulated HVAC telemetry (**81** chillers, **140K** readings/day), adding rule-based data quality with quarantine and watermark-driven incremental runs that populate **24** Gold tables.

Skills

Languages & Databases: C++, Python, Java, SQL, TypeScript, JavaScript, PostgreSQL, MongoDB, Redis, SQLite, non-relational databases, T-SQL
Web Technologies: Next.js, FastAPI, Node.js, Express.js, React, Socket.IO, REST APIs, GraphQL, HTML, CSS, Tailwind CSS, Three.js, Prisma, NextAuth
Cloud & Platforms: Azure Data Factory, Databricks, Apache Spark (PySpark), Delta Lake, Unity Catalog, DuckDB, AWS, AWS Lambda, Amazon EMR, OCI, Hugging Face, Render, Neon, Azure SQL, Power BI
Core Concepts: Data Structures & Algorithms (DSA), Data Modeling, Data Pipelines, Streaming Systems, Columnar Data Models, Microservices, ETL, Hadoop, Hive, NLP, MinHash, TF-IDF, Parquet, PyArrow, OAuth 2.0, OpenID Connect, JWT, RBAC, Argon2id, TOTP, CSRF, Distributed Systems, Data Warehousing, Data Governance, Medallion Architecture, Data Quality
Testing, Tools & Observability: Docker, GitHub Actions, CI/CD, Azure Monitor, Application Insights, Git, pytest

Projects

Globe News Atlas | *Live Demo*
Python, FastAPI, React, TypeScript, SQL, Parquet, PyArrow, SQLite, Three.js, GitHub Actions, Docker, pytest

- Built a full-stack world-news atlas ingesting ten public sources into a bronze/silver/gold **Parquet** data lake on **Hugging Face**, serving **400-event** 24-hour snapshots through a **FastAPI** service and a React/Three.js WebGL globe.

TaskFlow – Chat-Native Work OS | *Live Demo* | *GitHub*
Next.js 14, React, TypeScript, Tailwind CSS, PostgreSQL, Prisma, Socket.IO, NextAuth, Docker, Render, Neon

- Built and deployed a chat-native work OS spanning tasks, notes, mind maps, calendar, focus sessions, and chat across **62 Prisma models**, as a single **Docker** service on Render with Neon PostgreSQL and startup migrations.
- Engineered real-time collaboration with **Socket.IO** rooms, including threads with live reply counts, reactions, typing indicators, presence, pinned decisions, and read state, backed by REST APIs and Prisma.

Education

University School of Information, Communication and Technology Delhi, India
Master of Computer Applications, Software Engineering; GPA: ***8.99/10*** Aug 2024 – May 2026

Integrated Institute of Technology Delhi, India
Bachelor of Computer Applications; GPA: ***9.01/10*** Aug 2020 – May 2023

Achievements

- LeetCode contest rating of **2,103** (Top **1.56%** globally), **Knight** status, and **752** problems solved.
- Secured All India Rank **1,030** in the NIMCET 2024 national entrance examination among **50,000+** candidates.

Certifications

- **Oracle Cloud Infrastructure 2025 Foundations Associate** | *Credential* (Oct 19, 2025; valid to Oct 19, 2027).
- **Complete React Developer (w/ Redux, Hooks, GraphQL)** | *Credential* (Jul 10, 2025; 42 hours).
- **HackerRank REST API (Intermediate)** | *Credential* (Oct 7, 2025).