

Ayush Sah

Backend Software Engineer | Java, Go, Distributed Systems

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Experience

Deutsche Bank

Pune, India

Technology Associate (Backend / Full-Stack Engineer)

July 2022 – Present

- Lead full-stack development on **dbCIS** (Cash Investment Service) — Deutsche Bank's corporate liquidity-management platform giving clients access to 50+ Money Market Funds through a single onboarding; own backend services, React/TypeScript portal, and release engineering
- Architected scalable Java/Spring Boot and Go microservices on GCP with Kafka event streaming, gRPC inter-service communication, and Kubernetes deployment; designed for high availability, observability, and secure session/auth handling
- Built async data and reporting pipelines spanning multiple report types and export formats; reduced generation latency by an order of magnitude via caching, parallel processing, and SQL optimization
- Designed configurable access-control and multi-step approval frameworks for trade workflows; reusable patterns adopted across multiple internal corporate banking platforms
- Shipped complex React/TypeScript UI — advanced filtering and search, multi-step approval flows, and a reusable component-based design system used across portals
- Earlier (BaaS team, 2022–2023): shipped experience-layer banking APIs across FX, payments, account validation, and cash investment domains with full CI/CD and IaC; authored shared libraries for structured logging and PII data masking adopted across the API portfolio
- Mentor interns and graduate hires; deliver internal Tech Talks on Agentic AI and Full-Stack engineering; recognized with **2 Beacon Awards** (DB's internal engineering excellence award)

Publicis Media

Mumbai, India

Trainee Analyst (Internship)

January 2022 – June 2022

- Built backend APIs in .NET and integrated frontend components for enterprise data tooling and BI workflows

Omist Consultancy

Mumbai, India (Remote)

Full-Stack Developer (Internship)

January 2021 – June 2021

- Built meemarathavadhuvar.in — a live matrimony platform with registration, profile management, and partner search; site has grown to 3,400+ registered users
- Designed and implemented a rule-based matchmaking engine scoring compatibility across weighted attributes (age, location, education, community preferences) and ranking prospects by composite score

Freelance & Independent Projects

- **Freelance Web Development** (2020–2022) — shipped 5+ production websites for clients including 2 NGOs, 2 portfolio businesses, and 1 ecommerce portal; handled requirements, full-stack development, and deployment independently
- **Interest Calculator** (live · src) — React calculator with simple/compound interest, WCAG 2.1 accessibility, input validation, and Vercel deployment; additional open-source projects on github.com/ayush-sah

Technical Skills

Languages: Java, Go (Golang, Gin), Python, TypeScript, JavaScript, SQL

Backend: Spring Boot, REST APIs, gRPC, Microservices, Event-Driven Architecture, Apache Kafka, ETL Pipelines

Distributed Systems: High Availability, Horizontal Scaling, Caching, Asynchronous Processing, Observability

Cloud & DevOps: GCP, Docker, Kubernetes, CI/CD, Infrastructure as Code, API Gateway

Frontend: React, Next.js, Redux, TypeScript, TailwindCSS, Design Systems

Databases & Testing: PostgreSQL, MySQL, NoSQL, Karate (API), Cypress (E2E), JUnit, Integration & Unit

Practices: System Design, API Design, Security, Agile, Code Review, Technical Mentoring

Selected Recognition

- **2× Beacon Awards** — Deutsche Bank's internal engineering excellence recognition for critical production issue resolution and consistent defect management
- **Two-time DB Global Hackathon finalist** (2024, 2025) — led 9-person team to Top 2 Pune, Top 3 India; built *FinWorld*, a financial inclusion platform
- **Two-time Innovation World Cup finalist** at Deutsche Bank (2023, 2024) — 1 of 6 finalists from 16,000+ employees in one cycle, for a financial literacy platform concept
- Completed DB Cloud Engineering Sprint with Distinction certification

Education

MCA, Sardar Patel Institute of Technology, Mumbai

2019 – 2022 · CGPA: 9.6 / 10.0

BCA, Institute of Business Science and Research, Navi Mumbai

2016 – 2019 · Grade: O (Outstanding)