Yash Patil

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EDUCATION

Sardar Patel Institute of Technology   Mumbai, India
Bachelor of Engineering in Electronics and Telecommunication; CGPI: 8.99   2016 - 2020

SKILLS

Languages: Java, Go, Python, TypeScript, SQL

Technologies: ReST, gRPC, Server Sent Events, Docker, Terraform

Frameworks and libraries: Spring Boot, Spring WebFlux, Karate Testing Framework, Go-GIN, ReactJS, React Testing Library, Jest, MUI, Ag-Grid, TensorFlow, OpenCV, React Native

Infrastructure and Google Cloud Platform: Cloud SQL (PostgreSQL), Cloud Run, Cloud Functions, Cloud Storage, Load Balancing, Pub/Sub, Cloud Logging and Monitoring, GCP IAM

EXPERIENCE

MSCI Inc.   Pune, India
Senior Technology Associate   Jan 2025 - Present

- Building and enhancing **MSCI Wealth Manager**, helping clients personalize their wealth portfolios
- Currently working on automating asset allocations rebalancing in financial models based on client needs, integrating with MSCI's **Quantitative Investment Solutions**
- Utilizing **ReactJS** with **TypeScript** on the UI, **Go** for services and analytics, supported by a strong, highly normalized **PostgreSQL** database managed by **Liquibase**, hosted on **Google Cloud Platform**

Deutsche Bank   Pune, India
Technology Associate   Mar 2023 - Present

- Built a **Global SaaS Platform** that streamlined receivables management for corporate clients, potentially reducing payment processing times by more than 40 hours a week in settlement cycles
- Used **ReactJS** and **MUI** to build and enhance client-facing web application served by a ReST and gRPC backend in **Go** and **Spring** hosted on **GCP** using **Terraform** having both synchronous and event-driven communication channels
- Integrated bank's **OAuth2.0** authentication platform with the internet facing global platform for corporate customers to use financial products on their existing accounts
- Designed and delivered an **Entitlements System** improving access management efficiency by reducing user permission configuration time from 5 minutes to 10 seconds per user
- Integrated the SaaS platform with **National Payments Corporation of India (NPCI)** managed **National Automated Clearing House (NACH)** for the creation and usage of NACH **mandate-based collections** for corporates to assist bulk processing and corresponding reconciliation against invoice-based or ad-hoc scheduled payments
- Implemented **Server Sent Events** using **Go** and **TypeScript** to send real-time payment status updates from the SEPA engine, enhancing user experience through instant notifications and potentially reducing client application status inquiries by 10 calls per minute per user
- Implemented a custom **OAuth2.0 Server** for corporates to use payout services via APIs, capable of issuing access and refresh tokens based on the given grant types, authorisation of which was handled using scope of the issued tokens
- Secured public API products using **mTLS** and strong CN Binding over GCP's Load Balancing service
- Delivered a **VPA-Lookup API** which searches for UPI handles given a VPA handle prefix across 10 banks in India
- Integrated **SEPA Credit Transfer** with Deutsche Bank's **dbSecureAuthenticator** Mobile Application for payment initiations to have **Strong Customer Authentication** support

- Built a **Docker Compose** configuration to run a replica of the entire application (UI and microservices) and infrastructure (database, network and pub/sub) for a controlled integration test setup, reducing setup time for testing environments from 2 hours to 5 minutes and accelerating development cycles
- Implemented distributed database migration strategy using **Liquibase** and **Spring Boot** for over 20 microservices
- Awarded the **Gold Problem Solver Medal** by the bank's leadership from among more than 2,000 employees in Corporate Banking Technology India
- Won the **Best Cash Management Solution** by The Asset Triple A Treasurise Awards 2024
- **National finalist** among 100 teams in Deutsche Bank **Global Hackathon 2024**
- **Winner** of **Hack2Protect** MAY2023, Deutsche Bank's internal security hackathon with over 200 participants

Deutsche Bank
Pune, India

Technology Analyst
Aug 2020 - Feb 2023

- Built a **Contextual Marketplace** for partners, where corporates can subscribe to banking products, using **ReactJS** for customer facing web portal, served by ReST backend in **Go**, having microservices supported by **gRPC**
- Designed and delivered a **Central Helpdesk Portal** which manages and reviews onboarding, product subscription and service request tickets using **ReactJS** and **MUI**
- Built a responsive marketing website for the marketplace platform using raw HTML, CSS and JavaScript for having better SEO and faster loading
- Designed and built an incoming **direct debit payments** service to manage customer mandates and redirecting corresponding payments through clearing-specific channels using **Spring WebFlux microservices**
- Developed and enhanced client-facing **Payment APIs** within Corporate Banking Technology covering payments across **India** (NEFT and UPI), **SEPA** (Credit Transfer and Instant), **UK** (Fast Payments), **Russia** and **Indonesia**)
- Implemented automated test cases and executions for ReST APIs using **Karate Framework**
- **First runners-up** out of 20 teams in Deutsche Bank's **Global Blockchain Hackathon 2022**
- **Global finalist** of Deutsche Bank **Global Hackathon 2022**, spanning all global technology centers with over 300 participating teams
- **Winner** of **Hack2Protect** DEC2022, Deutsche Bank's internal security hackathon with over 100 participants

Fractal
Mumbai, India

Data Science Intern
Jan 2020 - Jun 2020

- Worked on **Invoice Digitisation** which involved designing a system to extract data from invoices, successfully reduced the processing time for travel invoices from more than 20 man-hours per week to under one man-hour per week.
- Built an ML Model using **Deep Learning** and **NLP**, capable of grouping and extracting text data from invoices, which was reconciled against system MIS data, automated using **WorkFusion RPA**

Xoriant
Pune, India

Big Data Intern
May 2018 - Jun 2018

- Worked on **Generic Hive Sink** involving development of an API capable of pushing data from local storage to Hive
- Technologies used were HDFS, Hive and JDBC

CERTIFICATIONS

Google Cloud Platform Associate Cloud Engineer   **deeplearning.ai** Deep learning and NLP in TensorFlow

NOTABLE PUBLICATIONS

AI-Enabled Real-Time Sign Language Translator
AISC Series of Springer

Presented in International Conference on Soft Computing: Theories and Applications
Dec 2019

Intelligent Blood Management System
IEEE Xplore

Presented in IEEE Bombay Section Signature Conference 2019
Jul 2019