# Yash Patil

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## EDUCATION

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

## SKILLS

**Languages**: Java, Go, Python, JavaScript, SQL, Terraform

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

**Frameworks and libraries**: Spring boot, Spring WebFlux, Karate Testing Framework, Go-GIN, ReactJS, MUI, Ag-Grid, TensorFlow, OpenCV, React Native, ViroReact, Ethereum Solidity

**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

**Deutsche Bank**　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　Pune, India
*Technology Associate*　　　　　　　　　　　　　　　　　　　　　　　　　　Mar 2023 - Present

- Building a **Global SaaS Platform** for corporates to manage their receivables (and corresponding payments) against their customers and end users by understanding the **context of monetary transactions** and settlements
- Used **ReactJS** and **MUI** to build and enhance client-facing web application served by a ReST and gRPC backend in **Go** and **Spring boot** 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** capable of managing access based on roles on realtime product subscriptions and user role status
- Integrated the SaaS platform with **National Payments Corporation of India (NPCI)** managed **National Automated Clearing House (NACH)** in 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** to send realtime payment status updates from downstream SEPA engine to the application's user interface using **Go** and **TypeScript**
- Implemented a custom **OAuth2.0 Server** for corporates to use payout services using 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 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
- 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
- Won the **Best Cash Management Solution** by The Asset Triple A Treasurise Awards 2024
- **National finalist** of Deutsche Bank **Global Hackathon 2024**
- **Winner** of **Hack2Protect** MAY2023, Deutsche Bank's internal security hackathon

**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** in Deutsche Bank's **Global Blockchain Hackathon 2022**
- **Global finalist** of Deutsche Bank **Global Hackathon 2022**
- **Winner** of **Hack2Protect** DEC2022, Deutsche Bank's internal security hackathon

**Fractal**                                                         Mumbai, India
*Data Science Intern*                                         Jan 2020 - Jun 2020

- Worked on **Invoice Digitisation** which involved designing of a system to extract data from invoices
- 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