

## Skills

- Java, Python, Bash/Shell Scripting, SonarQube, JUnit, EDA, Python Libraries, Spring Boot, Microservices, postman, Linux/Unix, No SQL, Docker, Kubernetes, MySQL, Google Cloud / GCP, Linux, Pandas, SQL Server, Splunk, PostgreSQL, Git, REST API, GCP, CI/CD, GitHub Actions, GitHub, Bitbucket, Jenkins, DevOps\_Tools, SQL, AWS, JIRA, React, AWS Secrets Manager

## Experience

### Senior Software Engineer

Jan 2026 - Present

#### Securonix (Cybersecurity | SIEM | UEBA Platform)

- Scaling a **high-throughput SIEM platform** from **1M to 2M+ TPS** through system redesign and performance optimization.
- Built a **fully local, cloud-parity dev environment** for distributed systems, reducing developer setup and testing time.
- Designing next-gen **alerting, tracing, and logging** for large-scale security analytics.
- Tech Stack: Java, Spring Boot, Apache Kafka, Apache Spark, Hadoop (HDFS), HBase, Redis, Solr, MySQL, AWS (S3, SQS), Docker, Docker Compose, Kubernetes, Jenkins, Octopus, AI-Driven Development Lifecycle (AI-DLC)

### Product Engineer

Mar 2024 - Dec 2025

#### Mastercard (Fintech | Digital Payments)

- Engineered multi-region resiliency for Mastercard's instant clearing product, successfully onboarding over 5 clients and enhancing service reliability.
- Architected end-to-end contactless payment solution for Africa expansion, targeting 10M+ users and aiming for 100% growth in digital payment adoption.
- Designed an event-driven software library for financial authentication requests, accelerating processing time by 30%, thereby improving user experience.
- Implemented a JUnit integration test module on an in-memory database, leading to a 30% reduction in database-related issues and increasing system stability.
- Integrated WireMock into the testing framework, minimizing external API call issues by around 20% and reducing software development time.
- Tech Stack: Java, Spring Boot, Kafka, Nats.io, EDA(Event Driven Architecture), PostgreSQL, Caffeine Cache, JUnit, Pivotal Cloud Foundry (PCF), AWS, Jenkins, CI/CD, Splunk, Dynatrace, Bitbucket, REST API, Spring Batch, Spring Security, SonarQube, Python, gRPC

### Founding Software Engineer

Jul 2021 - Mar 2024

#### TartanHq (AI-Powered Enterprise APIs | Unified Data Platform | B2B SaaS Startup)

- Joined TartanHq as Founding Software Engineer, playing a day 0 role in product development.
- Worked directly with the CEO, CTO, and Head of Product to build Perks, a benefits platform <https://www.perks.tech/>
- Created Perks from the ground up, successfully bringing in real customers within just 3 months.
- Implemented HRMS Connect to onboard 30,000 concurrent users generating \$66,000 per month in revenue.
- Led the development of an optimized cart feature, reducing user dropout by 20% for a seamless buying experience.
- Developed an abstract solution for a queue with multiple producers and consumers which saved the cost by 50%.
- Designed a webhook integration for order and lead sharing, streamlining management for over 30 product providers and teams.
- Executed the seamless migration of the payment service from a Monolithic architecture to a Microservice.
- Integrated a User verification feature into the Perks platform, enabling the seamless execution of the entire loan journey.
- Managed and executed 20+ sprints using Agile methodology for a team of 8 individuals.
- Achieved a 50% cost reduction in AWS services by using efficient management strategies for databases, caching and EC2.
- Played a pivotal role in establishing foundational engineering management practices for the organization.
- Tech Stack: Java, Spring Boot, Hibernate, Kafka, EDA, Redis, RDS, MySQL, No SQL, DynamoDB, JUnit, AWS, GCP, AWS CodePipeline, AWS Secrets Manager, S3, EKS, CI/CD, CloudWatch, Splunk, Bitbucket, REST API, Spring Security, Docker, Kubernetes, Python Libraries, Pandas, Shell Scripting, JWT, TDD
- Utilized Confluence and Miro for creating High-Level Design (HLD) and Low-Level Design (LLD) documentation.

### Software Engineer (Backend)

Feb 2019 - Jul 2021

#### Volante Technologies (Enterprise Banking | Payment Infrastructure | Financial APIs)

- Engineered Direct Cover payment and bulk payment functionalities for VolPay, leading to its recognition as the top payment platform by IBS Intelligence Award.
- Designed and implemented a configurable approval process for payment actions, significantly enhancing workflow efficiency and security.
- Integrating advanced security protocols, resulting in a 15% decrease in transaction-related fraud incidents.
- Tech Stack: Java, Spring Boot, MySQL, SQL Server, Kafka, Javascript, React, Docker, AWS, OAuth2

# Projects

## Payment Wallet

[https://github.com/pratikdesai74/payment\\_wallet](https://github.com/pratikdesai74/payment_wallet)

- Engineered a distributed Multi-Service Payment Wallet system using Java's Spring Boot, Spring Security, Kafka, and Redis.
- Developed features for seamless user wallet creation, efficient money transactions, and real-time SMS notifications.
- Improved transaction processing efficiency by 20% (P95 latency: 200ms → 160ms) through Redis caching optimization and reduced SMS notification latency by 30% (8.0s → 5.6s average delivery time) via Kafka async messaging migration

## TalkToPDF

<https://github.com/pratikdesai74/talkToPDF>

- Deployed: <https://talktopdf-pofcgxwt5mlsevhylbuhj6.streamlit.app/>
- Engineered a RAG-based document interaction tool using LangChain, Claude AI/OpenAI, and vector databases.
- Implemented semantic search with context-aware retrieval for natural language PDF querying with multi-document support.
- Deployed production-ready solution on Streamlit with OCR capabilities for scanned document analysis.

# Achievements

- Received the IBS Intelligence Award for Volpay product development for Goldman Sachs.

# Education

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| <b>Scaler</b><br>Specialized in Software Development & Problem Solving | 2022 |
| <b>CDAC ACTS, Pune</b><br>Post Graduate Diploma                        | 2019 |
| <b>Shivaji University, Kolhapur</b><br>BE/B.Tech/BS                    | 2014 |