# Rishabh Porwal

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## SUMMARY

Senior Software Engineer with 7+ years of experience specializing in backend development, AI/ML systems, and microservices architecture across financial services, insurance, and travel technology sectors. Proven expertise in leading engineering teams, building scalable data processing systems handling 1M+ records per minute, and delivering AI-powered solutions. Strong background in Typescript, Node.js, Nest JS, React, Python, cloud technologies, and modern development practices with a track record of improving system performance, reducing operational costs, and mentoring development teams.

## WORK EXPERIENCE

**EMIRATES NATIONAL BANK OF DUBAI**                                                                              **Dubai, UAE**
**Senior Software Engineer**                                                                              **MARCH 2023 - Present**
- Lead and mentor cross-functional team of 10+ engineers across backend and AI/ML domains.
- Drive technical architecture decisions and code reviews for banking applications.
- Collaborate with stakeholders to translate business requirements into compliant technical solutions.
- Establish development standards, security protocols, and performance optimization strategies.
- Manage on-call rotations and incident response for production systems handling millions of transactions.

*Projects*:
- **DOCUMENT HUB (DOCUMENT PROCESSING SYSTEM)**
  Developed a scalable generative AI-powered document processing system for automated customer onboarding and KYC compliance. Implemented Azure Form Recognizer for document understanding and RAG architecture for intelligent data extraction from Emirates ID, passports, and utility bills. Built high-performance RESTful APIs handling 1000+ concurrent requests with optimized PostgreSQL queries achieving sub-second response times. Reduced customer onboarding time by 60% and achieved 95% data extraction accuracy.

  **Tech Stack**: Python, FastAPI, Azure Form Recognizer, PostgreSQL, RAG

- **TIJARI (CROSS BORDER TRADE PLATFORM)**
  Designed and built a comprehensive trade finance platform enabling cross-border transactions with the bank acting as financial guarantor. Delivered scalable system architecture, secure API integrations, and robust database design supporting high-availability operations with 99.9% uptime.

  **Tech Stack**: Typescript, Nest JS, Node.js, Express, React.js, Redux, MongoDB, Kafka, Typeorm, OpenShift

**SYNECHRON TECHNOLOGIES**                                                                              **Remote and Pune, India**
**Senior Associate - Technology**                                                                              **FEB' 2021 – Sept' 22**
- Served as technical lead for insurance domain projects, managing full software development lifecycle.
- Mentored junior developers and conducted code reviews, improving team productivity by 30%.
- Established CI/CD pipelines and deployment strategies using Docker and Kubernetes.
- Coordinated with cross-functional teams for seamless integration and timely project delivery.
- Conducted technical interviews and maintained system architecture documentation

*Projects*:
- **REAL-TIME INSURANCE CLAIM DATA PIPELINE**
  Built a high-performance data ingestion and processing pipeline handling insurance claims from multiple sources including Excel files, databases, and system logs. Implemented robust error handling, data validation, and real-time analytics capabilities. Achieved processing capacity of 1M+ records per minute with fault-tolerant architecture.

  **Tech Stack**: Typescript, Node.js, Kafka, Postgres, Debezium, ClickHouse, Docker, Kubernetes

**PATCH INFOTECH**                                                                              **Remote and Gurgaon, India**
**Senior Software Engineer**                                                                              **NOVEMBER 2017 – February 2021**
- Led Agile development teams of 5+ engineers with sprint planning and process facilitation.
- Established automated testing frameworks and quality processes, reducing production bugs by 40%.

- Collaborated with UI/UX designers and product managers for technical requirement translation
- Participated in client communications and technical discussions for project coordination.
- Responsible for hiring and managing the technical team.

*Projects*:

- **QUICKSORT (SMART RECRUITMENT SYSTEM)**
Developed a comprehensive recruitment platform focused on eliminating hiring bias through data analytics and candidate profiling. Built core services including notifications, interview scheduling, real-time collaborative code editor, and integrated audio/video calling. Implemented microservices architecture with WebSocket-based real-time communication.

  **Tech Stack**: Typescript, Node.js, Express, React.js, Redux, MongoDB, Mongoose, Kafka, AWS

- **O GENIE (AI TRAVEL ASSISTANT)**
Created an intelligent travel chatbot powered by NLP and deep learning for personalized travel recommendations. Integrated multiple third-party APIs for flights, hotels, and activities. Achieved 95% query accuracy while handling 1000+ daily user interactions with seamless booking capabilities.

  **Tech Stack**: Node JS, Express JS, React JS, Redux, Postgres, Elastic Search

## SKILLS

- **Programming Languages:** JavaScript, TypeScript, Python, SQL, C++
- **Frameworks and Libraries**: Node.js, Nest JS, Express.js, Fast API, React, Redux, Flask
- **Databases:** MongoDB, MySQL, Postgres, Redis
- **Cloud & DevOps:** AWS (Lambda, S3, EC2), Azure, OpenShift, Docker, Kubernetes, Jenkins, Git, JIRA
- **APIs & Integrations:** Restful APIs, 3Scale, Apache Kafka
- **Architecture & Methodologies:** Microservices, Monorepo, Event-Driven Architecture, Agile, Scrum, SDLC
- **Testing & Monitoring:** JEST, Playwright, App Dynamics, Grafana, Kibana, Elastic Stack (ELK)

## EDUCATION

**MAHARISHI MARKANDESHWAR UNIVERSITY**                                                             **Chandigarh, India**
*Bachelor of Technology, Major in Computer Science; Minor in Mathematics*                    **2013-2017**

## ACHIEVEMENTS

- Spot Award in Oct,2024 at Emirates NBD.
- Star of the Month and awarded with Star Award in May 2021 at Synechron.
- Performer of the year in 2019 for O Genie.
- Management Head of Indian Society of Technical Education at MMU.
- Campus Ambassador of IBNI and I-Mediate at MMU (Session: 2015-16) and TRYST'16 (IIT Delhi, Techfest).
- Participated in NKFI International Open Karate-Do Championship in 2010, under-17 as Kumite Player.
- Vice-Captain of Red House at Golden International School, Indore (Session: 2012-2013).