Tridrik Dey

Software Developer · Java & Spring Boot · DocuSign & Enterprise Integrations

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Right to work: Italy ✓ (working in Rome) · Notice period: Flexible · Where: Remote only · based in Rome (CET) · Languages: Bengali (mother tongue) · Hindi (native) · English (professional) · Italian A2 → B1

SUMMARY

I'm a Software Developer at BARS in Rome, a DocuSign partner. My day-to-day work is integrating DocuSign with enterprise systems — SAP, SharePoint, Microsoft Entra ID and HR platforms — using Java/Spring Boot, Node.js and TypeScript: backend APIs, OAuth 2.0 and SOAP/REST integrations, XML/JSON data contracts and the frontends around them.

Alongside my professional work I build AI projects independently: LLM applications, RAG architectures and AI agents. NVIDIA's "Building RAG Agents with LLMs" course and the J.P. Morgan Software Engineering program sharpened how I think about scalable systems and AI-assisted development.

Before that I was a researcher at Università Roma Tre, designing and evaluating VR training systems with haptic feedback for Industry 4.0 and workplace safety. My path runs from electronics engineering through QA, operations and research to software development — so I care about systems that work for the people using them.

EXPERIENCE

Software Developer — BARS Sep 2025 – Present
Rome, Italy

- Built a private DocuSign Data IO Extension App (Node.js/Express, OAuth 2.0 client credentials, SOAP) so Maestro workflows retrieve SAP document data by request number before signature — working prototype, ongoing.
- Built a Java/Spring Boot proof of concept that collects purchase-order PDFs from SharePoint via Microsoft Graph and sends them as one DocuSign envelope to the vendor, with a credential-free mock mode and a REST contract designed for SAP.
- Built a TypeScript proof of concept that writes Microsoft Entra ID user attributes into DocuSign envelope custom fields through a configurable mapping, ready for document-management archiving.
- Wrote the bilingual functional analysis and built a mock-data prototype for HR e-signature (in-person signing on tablet, archiving to Zucchetti HR), with integrations behind adapters.
- Frontend work with Angular, SAP UI5, JavaScript and HTML5 on DTM and AR/XR business platforms.

Research Assistant — Università degli Studi Roma Tre Jan 2024 – Sep 2025
Rome, Italy

- Designed, built and evaluated VR training systems with haptic feedback, in Unity (C#) for Meta Quest 3.
- Integrated WEART TouchDIVER G1 haptic gloves so trainees can feel what they handle, not just see it.
- Focus on Industry 4.0 and workplace-safety training scenarios.
- Brought the research mindset — hypotheses, measurement, iteration — into how I build software today.

Back Office Manager — JR Motors Pvt Ltd (Tata Motors distributor) Nov 2016 – Nov 2017 · Jun 2018 – Sep 2022
India

- Data processing in CRM-DMS, the portal built by TCS for all Tata Motors dealers.
- Billing and stock management; the bridge between dealers and Tata Motors.
- Managed HR and back-office operations under tight deadlines, with teamwork and customer handling.

Associate Advisor — Wipro Nov 2017 – Jun 2018
India

- Technical support for British Telecom's UK customers: broadband, fibre, TV, mobile and telephone — troubleshooting, maintenance and billing.
- Consistently received 10/10 CSAT ratings; recognised by the team lead.
- Second runner-up performer in the British Telecom process training.

Software Test Engineer — IBS Software Sep 2015 – Nov 2016
India

- Tested iCargo, the cargo management system of Lufthansa Cargo (Frankfurt).
- Trained in Selenium automation and Java, Spring MVC, JDBC, jQuery, JavaScript, HTML5, CSS, Bootstrap and Node.js.
- Recognised as an extraordinary performer in software test training; delivered critical test tasks on time.

SELECTED PROJECTS

- **Person Registry** (Spring Boot, Java 17, MySQL, React, React Query, i18n): Full-stack CRUD app (Anagrafica Persona) for people and addresses: search by Codice Fiscale, filters by surname and province, validation and Italian/English DTO mapping. github.com/Tridrik-Dey/person-registry-monorepo
- **VideoRAG-AI** (Python, faster-whisper, FAISS, Sentence-Transformers, Streamlit, FFmpeg): Talk to your videos: local transcription with faster-whisper, semantic search with bge-small embeddings and FAISS, and answers with exact timestamps and "play from here" citations. github.com/Tridrik-Dey/VideoRAG-AI
- **chatCV-AI** (Next.js 15, OpenAI, RAG, Tailwind CSS, TypeScript): An AI assistant that represents me to recruiters: answers questions about a professional profile using RAG with gpt-4o-mini and text-embedding-3-small. github.com/Tridrik-Dey/chatCV-AI
- **Midas Core (J.P. Morgan)** (Java 17, Spring Boot 3, Kafka, JPA / H2, REST): Spring Boot service from the J.P. Morgan Software Engineering program: consumes Kafka transactions, validates them, applies incentive bonuses from a companion API and exposes account balances over REST. github.com/Tridrik-Dey/jpmc-midas-core
- **JobSeekerAI** (TypeScript, LangChain, XState, Puppeteer, OpenAI / OpenRouter / NVIDIA): An autonomous job-application agent: GPT-4 plans the steps, an XState state machine orchestrates the workflow, and Puppeteer drives the browser. Multi-provider, with a CLI and recovery from failures. github.com/Tridrik-Dey/JobSeekerAI
- **AI Ticket Assistant** (Next.js, TypeScript, Drizzle ORM, PostgreSQL, Tailwind CSS): Hackathon project that classifies support tickets, detects priority, extracts key information and drafts suggested responses. github.com/Tridrik-Dey/ai-ticket-assistant
- **QuickSum+** (Python, Transformers, T5-small): Offline-friendly summariser running a local T5-small model, with a choice of tone: formal, casual or bullet points. github.com/Tridrik-Dey/QuickSum-

SKILLS

Enterprise integration: DocuSign eSignature API, DocuSign Maestro, Data IO Extension Apps, SAP (SOAP), Microsoft Graph, SharePoint, Entra ID, OAuth 2.0, Zucchetti HR

Backend: Java 17, Spring Boot, Spring MVC, Kafka, REST APIs, JPA / JDBC, MySQL, PostgreSQL, XML / JSON contracts

Frontend: React, Angular, SAP UI5, Next.js, TypeScript, JavaScript, jQuery, HTML5 / CSS, Tailwind CSS

AI & data: LLMs, RAG, AI agents, LangChain, OpenAI API, Embeddings, FAISS, Whisper, Transformers, Streamlit

XR, quality & tools: VR / XR, Unity, C#, Meta Quest 3, Haptics (WEART TouchDIVER), Selenium, Testing / QA, Puppeteer, XState, Firebase, FFmpeg, Git

EDUCATION

Master's degree, ICT for Internet and Multimedia 2021 – 2023
Università degli Studi di Padova

Bachelor's degree, Electronics and Communication Engineering 2011 – 2015
Maulana Abul Kalam Azad University of Technology, West Bengal (formerly WBUT)

CERTIFICATIONS

- Docusign Extension Developer Pro — Docusign
- Building RAG Agents with LLMs — NVIDIA
- Software Engineering Job Simulation — J.P. Morgan
- Torq Partner PS Delivery (TPS 301) — Torq

LANGUAGES

Bengali — native (mother tongue) · Hindi — native · English — professional · Italian — A2, preparing for B1