

■ Profile

Full-stack engineer with 3+ years of experience building web applications with React, TypeScript, Java/Spring Boot and Node.js, now studying for an M.Sc. in Artificial Intelligence. I like starting from the people who will use a product and turning their requirements into working software. I build AI features like any other software: tested, secure and measured against a baseline, as the open-source projects below show.

■ Skills

Programming:	TypeScript, JavaScript, Java, Python, SQL
Frontend:	React, Next.js, Redux, Tailwind CSS, HTML5, CSS3, Figma
Backend:	Spring Boot, Node.js, NestJS, FastAPI, REST, GraphQL, OpenAPI, authentication, microservices
AI:	RAG, LangGraph agents, semantic retrieval, vector databases (ChromaDB), prompt engineering, LLM evaluation, PII redaction (Presidio)
Data:	PostgreSQL, Prisma, MongoDB, Elasticsearch, Kafka
DevOps:	Docker, Kubernetes, Helm, Terraform, CI/CD (GitHub Actions), GitOps, Playwright, Git

■ Experience

Freelance Full-Stack Developer

Oct 2023 – Mar 2025

EGENIE STORES · Remote

- Built end-to-end web applications with React, TypeScript, Java/Spring Boot and Node.js, from requirements with business stakeholders through to deployment.
- Designed and implemented more than 30 REST APIs and backend services for business-process automation.
- Developed an AI-assisted platform that generates legal documents through guided workflows, with search and document management.
- Integrated Elasticsearch-based search so users could find information faster.
- Introduced Infrastructure as Code with Terraform and GitOps practices for repeatable, maintainable deployments.
- Built proof-of-concepts with Python, generative AI and retrieval-augmented generation (semantic retrieval, AI workflow automation).

Working Student, Software Development

Aug 2022 – Jul 2023

KULTURBRAUEREI HEIDELBERG · Heidelberg, Germany

- Co-developed an employee time-management platform used by more than 100 employees: scheduling, leave management, availability tracking and attendance.
- Worked directly with staff to understand operational problems and turned them into features, workflow automation and process improvements.
- Designed user interfaces and workflows in Figma and contributed to the web and mobile apps.
- Took part in testing, troubleshooting and deployment in a multicultural Scrum team.

Full-Stack Developer

May 2019 – Jul 2021

ADHAAN SOLUTION PVT. LTD. · Ahmedabad, India

- Developed web applications with React, TypeScript and Node.js for business operations and customer-facing workflows.
- Designed and implemented REST APIs and backend services; contributed to solution design and technical decisions.
- Improved performance and user experience through frontend optimisation, state management and architecture changes.
- Maintained CI/CD pipelines, deployment workflows and technical documentation.

■ Selected projects

Carvio: dealer inventory & lead platform

[Live demo ↗](#) [Code ↗](#)

[Next.js](#) · [NestJS](#) · [PostgreSQL](#) · [Prisma](#) · [GraphQL](#) · [Docker](#)

- Public car catalog with PostgreSQL full-text search and lead capture, plus a role-based back office; leads follow a shared state machine and every change writes an audit entry in the same transaction.
- Secure by default (guarded routes, single-use refresh tokens with reuse detection); REST with OpenAPI plus read-only GraphQL with depth and cost limits; CI with an 80% coverage gate and Playwright end-to-end tests.

Clinical Documentation Assistant (demo, synthetic data)

[Video ↗](#) [Code ↗](#)

[Python](#) · [FastAPI](#) · [React](#) · [PostgreSQL](#) · [Kafka](#) · [Presidio](#) · [Kubernetes](#) · [Terraform](#)

- Turns clinical notes into structured summaries that a clinician reviews and approves. Personal data is removed before any model call, and every field is checked against a verbatim quote from the note.
- Final run on 33 synthetic German and English notes: 93.6% field F1, 0.5% hallucination, 0% personal-data leakage. 247 automated checks; transactional outbox, idempotent consumer and circuit breaker.

Agentic Documentation RAG

[Video ↗](#) [Code ↗](#)

[Python](#) · [LangGraph](#) · [FastAPI](#) · [ChromaDB](#) · [multilingual embeddings](#)

- Cited question answering over German and English manuals. The agent grades its retrieval, rewrites weak queries and checks that the answer is grounded; loops are bounded and a test proves the graph terminates.
- Evaluated against a naive RAG baseline on 43 questions: 96.9% vs 88.2% grounded answers and 9 of 9 unanswerable questions refused, with the trade-offs documented (about 6× the latency).

■ Further projects

Analytics platform: Full-stack search and reporting with React, Spring Boot and Elasticsearch.

Semantic memory research: Semantic retrieval and contextual memory workflows with FastAPI and ChromaDB.

■ Education

M.Sc. Artificial Intelligence

Since Apr 2025

Brandenburg University of Technology (BTU)

Focus: machine learning, data analytics, intelligent systems.

M.Sc. Applied Computer Science

Oct 2021 – Sep 2023

SRH Hochschule Heidelberg

Erasmus+ scholar (Austria, 2023), selected for the programme Advanced Topics in Future Technologies. Focus: enterprise computing, process management, data strategy, UI/UX.

B.Tech Computer Science

May 2015 – Jun 2019

Maharshi Dayanand University, Rohtak, India

■ Languages & activities

Languages: English (fluent), Hindi (native), German (B1)

Leadership: Intern Head at DESIDOC, DRDO (Defence Research and Development Organisation, India)