

Ketan Darekar

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SUMMARY

Master’s student in Applied Computer Science with hands-on experience in full-stack web development using React.js and Node.js. Skilled in JavaScript, REST APIs, Agile workflows, and Git. Proficient with CI/CD and cloud platforms. Eager to contribute to scalable, user-focused solutions in a dynamic, agile team environment.

SKILLS

- **Technical Skills:** HTML, CSS, JavaScript, Java, Python, React.js, MongoDB, Git, GitHub, REST APIs.
- **Technical Competencies:** Software Development, LLM, Docker, CI/CD, API Integration, Agile.
- **Soft Skills:** Teamwork, Communication, Problem-Solving, Analytical Thinking, Time Management.
- **Language Skills:** English (C1), German (B2), Hindi (Native), Marathi (Native).

PROJECTS

AI Powered Chatbot & Assistance Platform

[source code](#)

- Built an AI-powered chatbot with real-time chat, image handling, and secure login. Used React.js for the UI, Node.js, Express.js for the backend, Gemini API for AI responses, and MongoDB Atlas to store chat history.
- Integrated live data via OpenWeather and News APIs, enhanced by Gemini's context-aware responses.

Ecommerce Web Application with Stripe and firebase

[source code](#)

- Developed a full-stack e-commerce application with features like product browsing, real-time cart updates, and secure checkout. Designed the frontend using React.js, Tailwind CSS and built the backend with Node.js, Express.js.
- Integrated Stripe for payments, Firebase for authentication and real-time data, and MongoDB for product storage.

Hotel Management System

[source code](#)

- Built a desktop-based Hotel Management System with room booking, automated billing, and customer record tracking. Developed the UI using Java Swing and AWT for a smooth user experience.
- Connected to MySQL via JDBC for reservations, billing, CRUD, and invoice generation with data validation.

WORK EXPERIENCE

AI Research Thesis - Retrieval-Augmented QA System for PDF & Web Content

[source code](#)

SRH Hochschule Heidelberg · Apr 2025 – Sept 2025 (ongoing)

- Currently developing an AI-powered question-answering system using Retrieval-Augmented Generation (RAG) to extract structured information from PDF and web content, leveraging PostgreSQL and LangChain.
- Implementing scalable backend logic with Python and FastAPI, focus areas include chunking strategies, metadata handling, and NLP integration for large-scale retrieval efficiency.

EDUCATION

Master of Science in Applied Computer Science

Oct 2023 - Sep 2025

SRH Hochschule, Heidelberg | Grade: 2.1 (1.0 = best)

Bachelor of Computer Application

Aug 2019 - April 2022

MIT ACSC, Pune | Grade: 9.1 / 10 CGPA

CERTIFICATIONS

- Full Stack Software Developer - IBM, 2025 [Certificate](#)
- Python Full Stack – CJC, 2023 [Certificate](#)
- German B1 & B2 - Goethe Institute, 2023 [Certificate](#)
- Azure fundamentals – Microsoft, 2022 [Certificate](#)