

Ketan Darekar

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SUMMARY

Master's student in Applied Computer Science with practical experience in building CMS- and e-commerce-based platforms using JavaScript, and SQL. Familiar with WordPress, Craft CMS, and Shopify. Passionate about clean code, modern tech stacks, and contributing to user-friendly, scalable digital products in cross-functional teams.

SKILLS

- **Technical Skills:** HTML, CSS, JavaScript, Java, Python, React.js, MySQL, Git, GitHub, REST APIs.
 - **Technical Competencies:** Full Stack Development, UI/UX, GraphQL, WordPress, CI/CD, API development, Agile.
 - **Soft Skills:** Teamwork, Communication, Problem-Solving, Analytical Thinking, Time Management.
 - **Language Skills:** English (C1), German (B2), Hindi (Native), Marathi (Native).
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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.
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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.
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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
- Python Full Stack – CJC, 2023
- German B1 & B2 - Goethe Institute, 2023
- Azure fundamentals – Microsoft, 2022

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