

# SAMARTH PRAJAPATI

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## Summary

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Versatile software engineer skilled in full-stack development, AI/ML engineering, and DevOps. Proven experience building production-ready applications using .NET, Drupal, Python, React.js, and cloud infrastructure. Passionate about developing intelligent tools, multi-agent systems, and scalable backend APIs.

## Education

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**University of Cincinnati**

**August 2022 - May 2027**

*Bachelor of Science in Computer Science*

## Work Experience

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**Web Developer (Off-site Co-op) – Cummins Inc.**

**January 2025 - May 2025**

- Spearheaded improvements in Opigno LMS to optimize client learning experiences, reducing user-reported issues by 30%
- Integrated bpmn.io in drupal to demonstrate visual diagrams on webpages and training systems
- Implemented 50+ reusable components using Tailwind CSS, and Material UI for consistent, responsive UI
- Designed and implemented Drupal-based modules, increasing website performance and modularity
- Utilized Azure DevOps, Git, and CI/CD pipelines while practicing Agile with daily standups and sprint planning
- Worked cross-functionally with content strategists, UX designers, and QA teams to launch a training portal for internal staff

**Teaching Assistant (TA) – University of Cincinnati**

**August 2023 - December 2023**

- Provide academic support to 500+ students through personalized one-to-one sessions to solve doubts and conduct EV3 practicals
- Supported faculty during lectures, assisted fellow students by sharing my practical insights and experience gained from the class
- Hosted tutoring sessions for students to teach fundamentals of python, Matlab, Labview to assist with bugs and issues

**Software/Web Intern – TOPS Technologies**

**May 2023 - July 2023**

- Collaborated with a cross-functional team to develop a recipe app from concept to completion within a 3-month timeline
- Designed responsive and user friendly UI/UX pages with Figma, and implemented it using React.js
- Utilized Django framework to manage user authentication, data storage, automate emails, payment integration via Razor Pay
- Automated wire label processing with Python script, reducing operation time by 60% and boosting team productivity by 30%
- Optimized 25+ Tableau dashboards by migrating to cloud-based data sources, significantly improving data accessibility

## Projects

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**UC DoubtClear – Q&A platform for UC students with AI Integration**

**June 2025 - Present**

- Built a real-time student doubt portal with secure auth, role-based access, and instant updates using Supabase RLS
- Developed a responsive frontend in React (Vite) + TailwindCSS with modular components and live question feeds.
- Integrated Langfuse for live prompt tracing, token usage logging, and debugging across GPT-4o agents
- Deployed a GPT-powered assistant with memory and retrieval, enabling 24/7 task updates and dependency risk queries via chat

**PDFChat – SaaS AI-Powered PDF Assistant (RAG, Vercel AI SDK)**

**January 2025 - February 2025**

- Deployed a full-stack RAG-based assistant using Next.js, allowing users to ask semantic questions on uploaded PDFs
- Used Vercel AI SDK to route prompts between models (GPT-4, Claude 3, Mistral) and manage embedded tool usage dynamically
- Embedded documents via HuggingFace Transformers and Supabase vector storage, ensuring fast, relevant chunk retrieval
- Integrated Clerk for auth, Stripe for billing, and Shadcn UI for a polished and responsive frontend

**AI-Powered News Aggregator – React, Flask, Python, BeautifulSoup, NLTK**

**November 2024 - December 2024**

- Built a full-stack web app to scrape and aggregate news from multiple sources, using NLP to categorize and summarize articles.
- Developed Flask API with BeautifulSoup for real-time scraping and NLTK/Sumy for automated text summarization.
- Designed a responsive React frontend with Axios integration to display categorized news in an intuitive UI.

## Skills

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**Programming Languages:** Python, TypeScript, JavaScript, Java, C#, C++, SQL, HTML, CSS

**AI/ML:** LangChain, LangGraph, CrewAI, RAG, OpenAI, PyTorch, Scikit-learn, HuggingFace, Pandas, NumPy, n8n

**Frontend:** React.js, Next.js, Svelte, Razor Pages, TailwindCSS, Bootstrap, Figma, UI, UX Design

**Backend:** .NET (Blazor, MAUI, MVC), Node.js, FastAPI, Prisma, GraphQL, REST APIs, JWT, OAuth2, Django, Drupal

**Cloud & DevOps:** Azure, AWS, GCP, Docker, Kubernetes, GitHub Actions, CI/CD, Supabase, Vercel, Jira, Postman