Meet Patel

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EDUCATION

Michigan State University East Lansing, MI
Bachelor of Science in Computer Science, Minor in Business; GPA: 3.5 *Jan. 2022 – Dec. 2025*

Relevant Coursework: Intro to Python and C++, Data Structures and Algorithms, Computer Organization & Architecture, Object-Oriented Software Design, Intro to AI, Web Application Architecture and Development, Mobile Application Development, Software Performance Engineering

TECHNICAL SKILLS

Languages: Python, C/C++, HTML/CSS, TypeScript/JavaScript, Java, SQL, Assembly
Databases: MySQL, DynamoDB, PostgresSQL, Firebase Firestore, MongoDB
Frameworks: NextJS, React, Angular, React Native, Node.js, TensorFlow, Django, Flask, FastAPI
Tools: Git, Github, AWS, Docker, Google Cloud, VS Code, PyCharm, CLion, Jupyter Notebooks, IntelliJ, Eclipse

EXPERIENCE

Software Engineer Intern June 2025 – Present
Capital One *Mclean, VA*
- Implementing a full-stack project for bulk case management using Angular, AWS Lambda, DynamoDB, Python

Software Engineering Fellow July 2024 – September 2024
Headstarter AI *Remote*
- Built 5+ AI apps using **NextJS, OpenAI, Pinecone, StripeAPI** with 98% accuracy in AI-driven outputs
- Developed projects from design to deployment, leading 4+ engineering fellows using **MVC design patterns**
- Implemented **microservices architecture and containerization** to optimize deployment pipelines by **30%**

Teaching Assistant August 2023 – Present
Michigan State University *East Lansing, MI*
- Facilitated weekly labs and help sessions, providing guidance on projects and assignments in **Python**
- Collaborated with teaching faculty, contributing new ideas to enhance student learning
- Graded projects and provided feedback, leading to a **15%** improvement in class average grades and student learning

PROJECTS

Flashcards4U | *NextJS, React, Firebase, OpenAI, Clerk, Stripe, Material-UI*
- Developed a **SaaS** application to generate, manage, and save flashcards, with real-time cloud synchronization
- Integrated **Stripe** for secure subscription management and seamless payment processing
- Leveraged OpenAI **GPT-4** for automated flashcard creation, improving study efficiency

Rate My Professor AI Assistant | *Next.js, React, Pinecone, OpenAI, Material-UI*
- Built an AI assistant using **RAG** to provide context-aware responses based on professor reviews
- Integrated **Pinecone** for fast retrieval of professor data and **OpenAI** for response generation
- Created a backend **API** to handle real-time queries and stream responses, reducing response time by **40%**
- Analyzed user feedback and queries, achieving a **25%** increase in user satisfaction based on accuracy and relevance

Stock Trend Predictor | *Python, Scikit-Learn, Keras, Streamlit, Pandas, NumPy, Matplotlib*
- Developed a user-friendly Stock Trend Predictor web app, enhancing investor decision-making
- Implemented a ML model using **Keras Sequential Model** and layers like **Dense, Dropout, and LSTM**
- Demonstrated analytical skills through stock trend analysis, providing valuable insights for investment strategies