

Meet Patel

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EDUCATION

Michigan State University

Bachelor of Science in Computer Science, Minor in Business; GPA: 3.5

East Lansing, MI

Jan. 2022 – Dec 2025

Relevant Coursework: Intro to Programming I & II, Discrete Math, Data Structures and Algorithms, Computer Organization & Architecture, Object-Oriented Software Design, Computer Systems

EXPERIENCE

Software Engineering Fellow

Headstarter AI

July 2024 – Present

Remote

- Built 5+ AI apps using NextJS, OpenAI, Pinecone, StripeAPI with 98% accuracy as seen by 1000+ users
- Developed projects from design to deployment, leading 4+ engineering fellows using MVC design patterns
- Coached by Amazon, Bloomberg, and Capital One engineers on Agile, CI/CD, Git, and microservice patterns

Undergraduate Teaching Assistant

Michigan State University

August 2023 – Present

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

Software Engineer Intern

DNM Marketing LLC

June 2023 – August 2023

Chicago, IL

- Collaborated with a cross-functional team to enhance sales strategies through data-driven analysis
- Conducted rigorous back testing and performance tuning of HTML pages and database systems
- Developed automated testing frameworks for continuous integration, improving software reliability
- Optimized website loading time by 30%, leading to improved scalability and a direct impact on revenue growth

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

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 machine learning model using Keras Sequential Model and layers like Dense, Dropout, and LSTM
- Demonstrated analytical skills through in-depth stock trend analysis, providing valuable insights for investment strategies

StudyPal | *Python, Firebase, JavaScript, HTML/CSS*

- Lead a team in a hackathon to develop a full-stack web application using Firebase with HTML/CSS as frontend
- Implemented a matchmaking algorithm to connect students who want to study together
- Enabled effective communication among students, fostering a productive study environment
- Demonstrated exceptional problem-solving skills and coding proficiency in a time-sensitive environment

TECHNICAL SKILLS

Languages: Python, C/C++, Java, SQL, Assembly, HTML/CSS, JavaScript

Frameworks: NextJS, React, NodeJS, TensorFlow, Django, Flask, FastAPI

Tools: Git, VS Code, PyCharm, CLion, Jupyter Notebooks, IntelliJ, Eclipse

Libraries: Pytorch, Material-UI, Pandas, NumPy, Matplotlib