

Nency Patel

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EDUCATION

Masters of Computer Science — *Illinois Institute Of Technology, Chicago, IL*

Aug 2023 - May 2025

Relevant Coursework: Machine Learning, Software Engineering, Big Data Technology, Healthcare Informatics, and AI GPA- 3.66/4.00

Bachelor of Computer Engineering — *Vishwakarma Government Engineering College (G.T.U) , Gujarat, India* June 2018 - June 2022

Relevant Coursework: Algorithms & Data Structures, Data management systems, Object-oriented programming GPA- 3.67/4.00

SKILLS AND EXPERTISE

- **Languages:** Python, C, C++, JavaScript, Typescript, SQL, HTML5, CSS
- **Frameworks & Libraries:** React.js, Node.js, Express, FastAPI, Flutter, FlutterFlow, TensorFlow, MATLAB, jQuery, NextJS, React Native, GraphQL
- **Tools:** Microsoft Office (Word, Excel, PowerPoint, Project), Canva, Linux Shell Command, GIT, AWS, Postman, GCP, LLMs, Docker
- **Databases:** MongoDB, PostgreSQL, SQL, MySQL
- **Organizational Skills:** Collaboration, Entrepreneurship, Priorities, Agile development, Communication
- **Software Development:** Debugging, Troubleshooting, System Optimization, Secure API Development (JWT, OAuth2), Testing, Microservices, System Design
- **Methodologies & Collaboration:** Agile Development (Scrum, JIRA), Team Collaboration, Project Prioritization, Entrepreneurship

WORK EXPERIENCE

Software Developer Intern — *Hyphenova Network, Chicago, IL*

Sep 2024 - Dec 2024

- Developed cross-platform web applications using **FlutterFlow, React Native, and ReactJS**, enhancing user engagement.
- Optimized **database efficiency** with **PostgreSQL and Supabase**, improving scalability and reducing query execution time.
- Enhanced **API performance by 40%** through caching and backend optimizations in **Python FastAPI and Node.js**, ensuring seamless client-server communication.
- Resolved **critical server-side issues**, reducing downtime and improving system reliability while collaborating cross-functionally to implement new features.

Jr Software Engineer — *Infilon Technologies Pvt Ltd , Gujarat, India*

July 2022 – June 2023

- Developed and optimized full-stack applications using **MERN stack and Next.js**, improving functionality and enhancing user experience.
- Engineered scalable **backend solutions** with **Node.js, Express.js, and MongoDB**, supporting high-traffic applications and real-time interactions.
- Implemented **real-time updates** and **third-party integrations** in **React.js**, enhancing interactivity and dynamic content delivery.
- Resolved critical production issues, achieving **99.9% uptime** through proactive debugging, system monitoring, and optimized issue tracking with **Git and JIRA**.

Node Js Developer — *Esmsys Pvt Ltd , Gujarat, India*

Jan 2022 – June 2022

- Led **backend development and upgrades** using **continuous integration and deployment (CI/CD)**, enhancing system reliability and functionality.
- Engineered **high-performance server-side applications** with **Node.js, Express, and SQL databases**, ensuring a robust and scalable infrastructure.
- Optimized **server performance by 40%** through caching, load balancing, and query optimization, improving response times.
- Strengthened **security and API interactions** by implementing **encryption, authentication, and API validation**, ensuring seamless data exchange with front-end applications.

PROJECTS

GitHub Analytics Dashboard with React & Flask

Sep 2024- Dec 2024

- Developed a full-stack web application integrating React (frontend) and Flask (backend) to analyze GitHub repository activity, including issue creation, closure rates, and trend predictions.
- Implemented RESTful APIs and database integration to efficiently fetch, process, and store GitHub data, optimizing query performance and ensuring real-time analytics.
- Deployed scalable microservices on Google Cloud using Docker, enabling high-performance forecasting models (LSTM, Prophet, StatsModel) for predictive analytics and trend visualization.

Lost persons Record

July 2020- Dec 2020

- Developed a website using the **MERN stack (MongoDB, Express, React, Node.js)** to help people reconnect with lost family members, ensuring a user-friendly and responsive interface.
- Designed and implemented two separate panels (Admin and User) where the Admin panel allows for the input and management of accurate information about lost individuals, and the User panel enables users to report and search for lost persons.
- Integrated real-time communication features using **WebSockets and RESTful APIs**, allowing authorized users to send and receive messages about the whereabouts of lost individuals, ensuring timely updates and effective communication.

User Management Module

Jan 2022- March 2022

- Developed a multi-use User Management system for the IT sector using **Node.js and React.js**, providing a standard solution for managing user information, modules, and rights.
- Implemented role-based access control where administrators can manage roles, permissions, and user access based on projects and roles, ensuring secure and efficient user management.
- Implemented **JWT-based authentication** and authorization to ensure secure user sessions.
- Integrated an **SQL database** for robust data storage and access, enabling module access according to admin rights, permissions, and request approvals.