

# HENIBEN PRAJAPATI

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## EDUCATION

University of Illinois at Chicago

Expected Graduation May 2026

Master of Science in Computer Science **GPA - 4/4**

Chicago, IL, USA

Indian Institute of Information Technology Dharwad

Graduated May 2023

Bachelor of Technology in Computer Science Engineering **GPA - 3.25/4**

Karnataka, India

## TECHNICAL SKILLS

**Programming Languages:** Java, TypeScript, JavaScript, Python, SQL, HTML, CSS, C++  
**Web Development:** React, Angular, Node.js, Express.js, RESTful APIs, JSON, AJAX  
**Backend Development:** Spring Boot, Java EE, Flask, Django, Microservices  
**Database Management:** MySQL, PostgreSQL, MongoDB, SQLite, Database Design, Query Optimization  
**Cloud & DevOps:** AWS (EC2, S3, DynamoDB), Docker, Jenkins, Git, GitHub, CI/CD  
**Machine Learning:** PyTorch, TensorFlow, Scikit-Learn, Pandas, NumPy

## EXPERIENCE

FIS Solutions (India) Private Limited (FIS Global)

Sept 2023 - Aug 2024

IT Trainee - Market Data Analyzer Energy Edition Team

Pune, India

- Developed real-time energy trading dashboard components in **TypeScript** and **Java** for FIS Market Data Analyzer serving 500+ commodities traders, integrating live price feeds from S&P Global Platts and multiple exchanges, reducing data visualization latency by **15%**.
- Engineered high-performance **SQL queries** processing 100,000+ daily energy price points, optimizing data retrieval from **3.2 seconds to 400ms** for time-sensitive trading decisions.
- Resolved **40+** critical production issues including memory leaks in Angular components, SQL N+1 query problems affecting real-time price aggregation, and **API** timeout issues during peak trading hours.
- Implemented responsive trading interface features using **TypeScript** and **Angular** that improved trader workflow efficiency by **10%**, receiving **95%** user satisfaction scores from energy commodities professionals in post-deployment surveys.

## PROJECTS

CAMP+ – Campus Management Web Platform (MERN Stack)

- Designed and developed a full-stack web application using the **MERN stack** to streamline campus service management for over 900 students, reducing service request resolution time by **40%**.
- Enabled over 900 students to access campus services including event registration, library bookings, room management, and deliveries.
- Engineered **RESTful APIs** using **Express.js** and **Node.js** and integrated MongoDB for efficient data storage and retrieval.
- Implemented a responsive and accessible front-end in **React.js**, improving usability and student satisfaction.
- Developed comprehensive project proposals that led to obtaining a substantial grant amounting to **3000 USD**; facilitated continuous improvements in campus accessibility for more than half of enrolled students during implementation phases.

RhythPic – Multi-Dimensional Music App

- Built a web platform enabling collaborative playlist creation, time-travel music discovery, and immersive song exploration using **TypeScript**, **Firebase**, and **MongoDB**.
- Implemented Smart Search and Queue Management systems, reducing average search and playlist handling time by over 30%.
- Enhanced music platform user engagement by developing an AI-driven module delivering **500+ unique** lyric-based visual interpretations and song breakdowns, reducing bounce rate by **15%** within first month.
- Leveraged **Spotify API**, **Genius API**, and an image generation API to create a responsive and scalable musical interface with real-time interaction and feedback.

## PUBLICATIONS

- Heni Prajapati, "A Novice Model Using Machine Learning to Detect Emotions in Scriptotherapy." In **Research Trends in Multidisciplinary Research**, Vol. 43, pp. 45-54, 2023.