VRAJ PAREKH

+1 (930) 904-4488 | **Email:** vrparekh@iu.edu | **LinkedIn:** linkedin.com/in/vraj24 | **GitHub:** github.com/Vraj24

EDUCATION:

Indiana University, Bloomington, IN, United States **Expected May 2026**
Master of Science, Computer Science CGPA: 3.7/4.0
Relevant Coursework: Software Engineering, Applied Algorithms, Machine Learning, Computer Vision, Cloud Computing

G. H. Patel College of Engineering & Technology (GCET), Anand, India **April 2024**
Bachelor of Engineering in Computer Engineering CGPA: 8.86/10.00

TECHNICAL SKILLS:

- **Languages:** C, C++, Java, Python, Dart
- **Web Development:** ReactJS, NodeJS, HTML5, CSS, Javascript, TypeScript
- **Libraries & Frameworks:** PHP, Scikit-Learn, Keras, TensorFlow, Redux, Flutter
- **Databases:** MongoDB, SQL
- **Tools:** Git, VS Code, Anaconda, PyCharm, Xcode, Docker, AWS EC2
- **Other Skills:** REST APIs, Agile Development, Authentication Protocols, Database Management

WORK EXPERIENCE:

Tech Elecon Pvt. Ltd., Anand, India **Dec 2023 – Apr 2024**
Software Engineer Intern
- Designed a scalable e-commerce platform using ReactJS, NodeJS, and MongoDB to streamline online sales.
- Enhanced system performance by **30%** through state management via Redux.
- Integrated PayPal API to ensure secure payment processing, achieving **99.9%** uptime.
- Collaborated with a cross-functional team to gather requirements, develop prototypes, and deploy features on time.

PROJECTS:

PrismCart – E-Commerce Platform **May 2024 – Sept 2024**
Technologies: React, NodeJS, MongoDB, Flutter, Dart
- Developed an e-commerce cross-platform with a web and a mobile application, ensuring a seamless shopping experience.
- Implemented secure authentication using **JWT tokenization**, enhancing security by **95%**.
- Designed and developed **REST APIs** for admin functionalities, enabling efficient product updates and inventory management.
- Engineered a product recommendation system based on item type and price, increasing **user engagement by 15%**.
- Integrated PayPal, Apple Pay, and Google Pay for secure and convenient payment processing, including automated receipt generation.
- Developed the Flutter mobile application with a UI identical to the web version, ensuring a consistent and responsive user experience across platforms.

Emotion Based Music Recommendation **Jun 2023 – Oct 2023**
Technologies: Python, Keras, TensorFlow, CNN
- Built real-time emotion detection, achieving an accuracy of **64%** with simple CNN layers, which **increased to 77%** by using **MobileNet**.
- Implemented **Spotipy API** integration for personalized song recommendations based on user emotions, aiding stress relief.

Restaurant Table booking System **Oct 2022 – Dec 2022**
Technologies: PHP, HTML, CSS, JavaScript, SQL
- Developed a web-based system allowing seamless table reservations and menu management.
- Enhanced user experience through dynamic interfaces and persistent state handling using PHP cookies, reducing booking time by **20%**.