

# PEDADA VENKATA HARSHA

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## EDUCATION

**ILLINOIS INSTITUTE OF TECHNOLOGY CHICAGO** | Chicago, IL

May 2024

*Master of Science Degree; Major in Computer Science; Cumulative GPA: 3.8/4.0*

**INDIAN INSTITUTE OF INFORMATION TECHNOLOGY KOTTAYAM** | Kerala, INDIA

May 2022

*Bachelor's in Technology Degree; Major in Computer Science and Engineering*

## SKILLS

- **Programming Languages:** Python, Javascript, Mysql, Dart, Java, R, C++, C, HTML/CSS
- **Technologies/Frameworks/Libraries:** Node JS, MongoDB, and JSX; Competent in Docker, Kubernetes, Rest API, Flutter, Django, Microservices, EKS, Flask, pandas, numpy, spacy, NLP, Scikit Learn, PyTorch, Tensorflow, Keras, Deep Neural Networks, Deep learning, OpenCV, and Matplotlib.
- **Coursework:** SDLC, Software Project Management, DSA, Computer Networks, OS, Database, Big Data, OOPS, Mobile Application Development, ML, Cloud Computing, Information Security, Data Preparation and Analysis

## EXPERIENCE

**Full stack project team lead | Big Brothers and Big Sisters, Ventura, USA**

Jun 2024 - Present

- Led front-end development using Flutter, designing and optimizing a secure login and check-in system for youth and volunteers, improving app performance by 30% through code optimization and iterative testing.
- Developed key app features such as student check-ins, appointment scheduling, and counselor meeting management.
- Collaborated in a multidisciplinary team and troubleshooting sessions, contributing to a 25% improvement in project timelines and phase III implementation planning, including future integration of machine learning algorithms for enhanced security.

**Full stack developer Intern | ADDVERB TECHNOLOGIES, Noida, INDIA**

Feb 2022 - May 2022

- Engineered and deployed a centralized database infrastructure to streamline log storage, leading to a notable 50% decrease in data retrieval durations.
- Directed a 40% decrease in API call payload to addverb servers through the strategic optimization of local system.
- Mastered version control systems like GitHub and Bitbucket, ensuring code quality, consistency, and maintainability.

## PROJECTS

**Student and Volunteer Appointment Management System**

Sep 2024

- Designed and developed a dynamic web app using Flutter (Dart) for the front-end and JavaScript/Python for the backend, enabling mentors to create, edit, and manage appointments, resulting in 40% faster appointment scheduling for users.
- Implemented MySQL Workbench for database management to track student check-ins/check-outs, with automatic report generation in Excel for mentor reviews, ensuring accurate and real-time data access.
- Deployed the app on AWS using AWS Amplify, optimizing backend processes and enabling cloud-based functionality, improving scalability and reducing downtime by 20%.

**Blog Website**

Feb 2024

- Developed a dynamic blog application utilizing React.js for frontend development, coupled with Express.js, and Node.js for backend functionalities, and integrated Google Firebase for authentication.
- Implemented MongoDB Atlas for efficient data storage, utilizing MongoDB shell for database operations. Uploaded and deployed the application on Google Cloud Platform (GCP)

**GitHub Repository Analytics and Forecasting Platform**

Nov 2023

- Developed and deployed a full-stack application integrating Python/GitHub API for data retrieval, Docker/Google Cloud for microservices deployment, and React for front-end.
- Implemented data visualization features using Chart.js to represent repository metrics.
- Utilized TensorFlow/Keras LSTM package and Facebook/Prophet for time series forecasting of repository metrics.

**Real-time Driver Drowsiness Detection System**

Dec 2022

- Integrated computer vision and CNNs to detect drowsiness in drivers, bolstering road safety measures.
- Trained CNN Models with Data Augmentation and Transfer Learning in Keras and TensorFlow for accurate Eye State Classification in grayscale images and Sound Alerts via pygame.