# NIKHILESH LINGAMGUNTA

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## EDUCATIONAL QUALIFICATIONS

**Purdue University, Master of Computer Science** **Aug 2022 - May 2024**
GPA: 3.86

**Vellore Institute of Technology, Bachelor of Computer Science** **July 2018 - April 2022**
GPA:8.05

## TECHNICAL SKILLS

- **Languages:** Python, JavaScript, HTML, CSS, C#, Java, SQL, C, C++
- **Frameworks:** .NET, ReactJS, NodeJS, AngularJS, TailWindCSS, Bootstrap
- **Tools:** SQLite, Figma, Jira, GitHub, Android Studio, LaTeX, PowerBI, Postman, MATLAB

## EXPERIENCE

**Intern - Yet Another Solution, Singapore** **Aug 2023 – Present**

- I'm working on creating a responsive and visually appealing **UI** for the React application.
- Integrated **5+ Go microservices**, improving **backend efficiency by 20%.**
- Optimized **MySQL database** handling 10K+ records, enhancing query speed by 15%.
- Developed 10 **Go APIs**, **reducing data exchange latency by 30%.**
- Actively contribute to team discussions, optimizing synergy between **React**, **Go services, and MySQL Workbench**.

**Teaching Assistant - Purdue University, Fort Wayne, IN** **Jan 2023 –Present**

- Supported over **150 students** in ACS57500, CS57600, and CS36500 courses, focusing on database systems and machine learning.
- Aided CS57600 students with complex algorithms, **contributing to a 20% improvement in assignment grades**.
- Provided guidance in CS36500, leading to a 15% increase in exam scores.
- Mentored 30 students in CS33100 Intro to C++, fostering a **collective 25% improvement in programming proficiency**.

**SDE Intern - Dover Fueling Solutions, Chicago, IL** **June 2023 - Aug 2023**

- Contributed to Gas Station **Simulator UI** development as a Software Intern.
- Implemented an **advanced state machine** in C# for efficient process modeling.
- Established communication links using **named pipelines** for equipment interaction replication.
- Collaborated actively within a passionate team to integrate features seamlessly.
- Gained hands-on experience in **C# and SQL Workbench** technologies.
- Played a key role in creating an engaging and user-friendly UI for the simulator.

## PROJECTS

**Temple Management System – Frontend Developer**

- Develop a comprehensive website for Omkaar Temple, leading the **design with Figma**.
- Implement front-end using **ReactJS, HTML, CSS, and JavaScript**, and handle back-end development with **Node.js** for seamless interactions

**Prediction of PRESS-FIT Quality Using Machine Learning Models**

- Utilize data mining and **AI techniques to predict the quality of press-fit components.**
- Retrieve relevant datasets, perform advanced analytics, and employ AI to evaluate press-fit component quality based on historical and real-time data, offering insights into their performance and reliability for intended applications.

**Brain Tumor Detection Using MATLAB (Image Processing)**

- Developed a **MATLAB-based system** for precise brain tumor detection through image processing, focusing on accurate boundary delineation and clear visualizations.
- Coded each processing stage in MATLAB to ensure effective analysis of medical images, integrating the platform for robust and efficient image processing to enhance detection accuracy.

## PUBLICATIONS

- Published a paper on **"Navigation Master: Design and Implementation of Path Planning Algorithm for a known robot in a dynamic environment"** in the International Journal of Scientific and Engineering Research. Volume 12, Issue9, September 2021 Edition, ISSN: 2229-5518.
- Published a paper on **"Emotion Detector and Counsellor Chat-box"** in International Journal of Science and Research, Volume 10 Issue 11, November 2021, ISSN: 2319-7064.

## CERTIFICATIONS

- Certified for the excellence of completing 'Machine Learning Foundations: A case study Approach' from University of Washington - **August 2021**.
- Student Coordinator for the 5-Days Faculty Development Program titled" Data Science: Hands-on with Python, Keras and Tesorflow" - **October 2019**.