

VIVEK SHRAVAN GUPTA

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Graduate student in Computer Science actively seeking software development or related roles, with hands-on experience in full-stack development, machine learning, and cloud technologies

Work Experience

Research Assistant

DePaul University – Chicago, USA

Feb 2024 – Jun 2025

- Engineered and integrated advanced machine learning algorithms to optimize data storage efficiency, achieving a 25% improvement in data analysis speed. Applied techniques such as dimensionality reduction, clustering, and regression models to accelerate data retrieval processes.
- Collaborated cross-functionally with data scientists, engineers, and research teams to implement scalable machine learning solutions, enhancing data-driven research pipelines across various academic and industrial projects.
- Led the design and optimization of end-to-end data pipelines, incorporating efficient data pre-processing techniques in Python using libraries such as Pandas, NumPy, and Scikit-learn to manage large-scale datasets.

Full Stack Developer

Laxmi Print-o-Pack – Mumbai, India

Dec 2021 – May 2022

- Developed and tested full-stack web applications using React.js, Node.js, Express.js, and MongoDB, resulting in a 30% increase in development speed and overall company performance.
- Built interactive and responsive user interfaces using React.js, Bootstrap, and CSS, ensuring consistent cross-platform experiences across desktops, tablets, and mobile devices, which increased user engagement by 25%.

Education

DePaul University – Chicago, IL

- Master of Science in Computer Science [CGPA: 3.95/4]

Sep 2023 – Jun 2025

University Of Mumbai – Mumbai, IN

- Bachelor of Engineering in Computer Engineering [CGPA: 9.43/10]

Jun 2020 – May 2023

Technical Skills

Programming Languages:

Java, Python, JavaScript, C, C++, C#, R, Swift, Kotlin.

Web Technologies:

HTML, CSS, PHP, JavaScript, React.js, Vue.js, Bootstrap, jQuery, AJAX.

Frameworks:

Django, Flask, Node.js, React.js, Unity3D, AR Core, .NET, Android SDK, iOS SDK.

Databases:

SQL, MySQL, PostgreSQL, MongoDB, SQLite, Oracle.

Cloud Technologies:

Chameleon Cloud, AWS, Google Cloud Platform, Microsoft Azure.

Projects

Destiny - Campus Virtual Tour and Navigation

Jul 2022 – May 2023

- Led development of a Unity3D-based immersive campus tour using Android SDK, ARCore, and GPS, enhancing navigation by 30% through real-time geo-location features. Configured system's cloud-readiness using GCP & AWS.
- Designed front-end with React.js, Bootstrap, and HTML/CSS for responsive, cross-platform support using JavaScript and SQL for backend logic.

F.O.O.D. - Food Offering & Other Donations

Aug 2021 – Apr 2022

- Created a full-stack web application using PHP, HTML, CSS, JavaScript, and MySQL, reducing donation processing time by 25%. Integrated real-time updates via AJAX and Socket.io, improving user interaction.
- Configured infrastructure for cloud compatibility using MongoDB and Node.js to enable scalable back-end operations, increasing user donation activity by 15%.

Jeevandaan - Organ Donation System

Jan 2021 – May 2021

- Built a secure organ donation platform using Django, Python, and PostgreSQL, improving user authentication efficiency by 30%. Integrated React.js for a dynamic front-end that reduced user registration time by 20%.
- Developed RESTful APIs for seamless data exchange, ensuring 99.9% uptime and scalability, using OAuth 2.0 for secure access to sensitive data.

AI-Based Customer Support Chatbot

Jan 2020 – Aug 2020

- Developed an AI-powered chatbot using Google Cloud NLP, TensorFlow, and NLP techniques, reducing customer service response time by 40% and improving customer satisfaction by 35%. Integrated with Django and React.js for dynamic real-time interaction.
- Configured backend on AWS-compatible architecture, utilizing MongoDB for storing interactions and implemented Socket.io for seamless real-time chat, handling over 1,000 requests daily.

Smart Attendance System using Face Recognition

Jul 2019 – Nov 2019

- Developed an AI-driven face recognition system using Python, TensorFlow, OpenCV, and dlib, automating attendance marking and reducing manual effort by 60%. Integrated with React.js and Django for real-time update.
- Configured cloud-ready hosting architecture, utilizing SQLite for data management, and AJAX for seamless updates, increasing system adoption by 50% across the school.

Face Recognition Based Computation

Jan 2019 – May 2019

- Created a face recognition system using Python, OpenCV, and dlib, tracking crowd density in real-time, improving security analysis by 25%. Integrated Node.js for backend processing and MongoDB for data storage.
- Set up infrastructure for potential deployment on Google Cloud Platform, with real-time updates powered by React.js and AJAX, reducing data processing time by 30%.