VIVEK SHRAVAN GUPTA

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Actively seeking **Software Development** roles with hands-on experience in **Full-Stack Development**, **Machine Learning**, and **Cloud Technologies**. Skilled at building scalable applications, optimizing data pipelines, and delivering impactful solutions that improve performance, usability, and efficiency.

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, Tailwind, 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.

WORK EXPERIENCE

Research Assistant | DePaul University – Chicago, USA Feb 2024 – Jun 2025

- Designed and built a platform to help researchers work more efficiently with **TB-scale data** and **machine learning models**, significantly accelerating **data analysis**.
- Improved data processing speed by **52%** while applying ML techniques such as **clustering**, **regression**, and **dimensionality reduction** to optimize data storage and retrieval.
- Led the development of **CI/CD pipeline** using Django-**Python** (**Pandas, NumPy, Scikit-learn**) to clean, organize, and manage large datasets, making data workflow faster and easier to maintain.
- Worked closely with **data scientists**, **engineers**, and **researchers** to create scalable ML solutions that supported both academic and industry projects.

Full Stack Developer | Laxmi Print-o-Pack – Mumbai, India Dec 2021 – May 2022

- Worked as a full-stack developer for multiple clients, building and testing **Web Applications** using **React.js**, **Node.js**, **Express.js**, and **MongoDB**. Helped speed up development by **34%** and improved overall performance.
- Created responsive and user-friendly interfaces with **React.js** and **Tailwind CSS**, making sure websites work smoothly on desktop, tablet, and mobile. This led to a **28%** increase in user engagement.

ACADEMIC 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 **C#**, **Java** and **Kotlin** for responsive, cross-platform support using **JavaScript** and **SQL** for backend.

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. 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**, and **OpenCV** automating attendance marking and reducing manual effort by **60%.**
- Configured cloud-ready hosting architecture, utilizing **SQLite** for data management, and **AJAX** for seamless updates, increasing system adoption by **50%** across the school.