

# Vedant Mehta

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## EDUCATION

<b>Master of Science in Software Engineering</b> <b>San Jose State University, San Jose, United States</b> <i>Coursework: Deep Learning, Distributed Systems, Enterprise Application Development, Enterprise Software Platforms, Data Mining</i>	Aug 2024 – May 2026 GPA: 3.9/4.0
<b>Bachelor of Technology in Computer Science and Engineering</b> <b>Nirma University, Ahmedabad, India</b> <i>Coursework: Machine Learning, Cloud Computing, Data Structures and Algorithms, Database Management Systems, Operating Systems, Object Oriented Programming, Computer Networks, Big Data Analytics, Computer Vision, Statistics</i>	Oct 2020 – June 2024

## TECHNICAL SKILLS

<b>Programming Languages</b>	Python, Java, JavaScript, TypeScript, C++, C, Golang, SQL, R
<b>Web &amp; Software Development</b>	HTML/CSS, React.js, Node.js, Express.js, Next.js, Django, Flask
<b>AI/ML Libraries</b>	Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, Keras, TensorFlow, PyTorch
<b>Big Data &amp; Streaming</b>	Apache Kafka, Hadoop, Spark, NoSQL Databases
<b>Databases &amp; Storage</b>	AWS RDS, PostgreSQL, MySQL, MongoDB, Firebase, SQLite
<b>Cloud, DevOps &amp; Automation</b>	AWS, GCP, Docker, Kubernetes, Jenkins, Terraform
<b>OS &amp; Version Control</b>	Linux, Unix, Git/GitHub

## EXPERIENCE

<b>Software Engineer Intern, Techsture Technologies</b>   Ahmedabad, India <ul style="list-style-type: none"><li>Designed and implemented a custom ERP system for organization's intranet network using Django framework</li><li>Streamlined multiple HR functions like pay-slip generation, attendance tracking, event management, task management, and leave approval into the ERP system improving operational efficiency by 30%</li><li>Implemented role-based access control and multi-factor authentication to ensure secure access to organization's portals and enhancing data protection</li></ul>	Jan 2024 – May 2024
<b>Summer Intern, Northern Trust</b>   Pune, India <ul style="list-style-type: none"><li>Surveyed about possible utterances (keywords) entered by user for a particular workflow of a virtual agent chatbot on the ServiceNow platform</li><li>Integrated Natural Language Understanding into existing workflows enabling automatic workflow execution by recognizing intent of user based on utterances</li><li>Developed functionality in JavaScript to monitor and verify real-time status of critical services, including Microsoft services and company specific applications, displaying service availability and error notifications</li><li>Reduced IT support calls to the IT help desk team by 50% through the implementation of the NLP-based chatbot</li></ul>	June 2023 – Aug 2023

## PROJECTS

<b>Cloud IDE</b>   MERN, WebSocket, AWS S3, GCP, Docker, Kubernetes   <a href="#">GitHub</a> <ul style="list-style-type: none"><li>Built a secure collaborative cloud IDE with real-time multi-user code editing and an integrated AI assistant that provides contextual coding suggestions based on project-specific files, enhancing user productivity</li><li>Developed authentication, resource provisioning, and coding-interface microservices and deployed them on Google Cloud Run using Docker images, to manage user access and resource allocation</li><li>Deployed an automated container orchestration system using Google Kubernetes Engine that scales user environments on-demand, ensuring resource isolation through dedicated containerized environments, and optimal performance for up to 100 concurrent users</li><li>Integrated WebSocket communication for seamless real-time collaboration, allowing multiple users to edit and execute code simultaneously</li></ul>	Oct 2024 – Nov 2024
<b>Docu-LM</b>   ColPali, RAG, OpenAI GPT-4, ReactJS, NodeJS, Flask   <a href="#">GitHub</a> <ul style="list-style-type: none"><li>Engineered a document retrieval system using RAG architecture, implementing image based page-level indexing to maintain visual context integrity</li><li>Implemented an advanced document processing pipeline using ColPali for page-level indexing, enabling precise retrieval of contextual information from complex multi-page documents</li><li>Developed a user-friendly React interface allowing users to upload documents, with an intelligent chatbot leveraging GPT-4 to provide comprehensive answers by analyzing charts, graphs, and text together</li></ul>	Oct 2024

## EXTRACURRICULAR

<b>Computer Society of India, Nirma University</b>   Executive Member <ul style="list-style-type: none"><li>Assisted in organizing and executing various hackathons and coding events</li><li>Mentored new club members, helping enhance coding skills and offering general support and guidance</li></ul>	Nov 2020 – Dec 2023
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