

Vedant Mehta

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EDUCATION

Master of Science in Software Engineering San Jose State University, San Jose, United States <i>Coursework: Deep Learning, Distributed Systems, Enterprise Application Development, Enterprise Software Platforms, Data Mining</i>	Aug 2024 – May 2026 GPA: 3.9/4.0
Bachelor of Technology in Computer Science and Engineering Nirma University, Ahmedabad, India <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

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

EXPERIENCE

Software Engineer Intern, Techsture Technologies Ahmedabad, India <ul style="list-style-type: none">Designed and implemented a custom ERP system for organization's intranet network using Django frameworkStreamlined 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%Implemented role-based access control and multi-factor authentication to ensure secure access to organization's portals and enhancing data protection	Jan 2024 – May 2024
Summer Intern, Northern Trust Pune, India <ul style="list-style-type: none">Surveyed about possible utterances (keywords) entered by user for a particular workflow of a virtual agent chatbot on the ServiceNow platformIntegrated Natural Language Understanding into existing workflows enabling automatic workflow execution by recognizing intent of user based on utterancesDeveloped 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 notificationsReduced IT support calls to the IT help desk team by 50% through the implementation of the NLP-based chatbot	June 2023 – Aug 2023

PROJECTS

Cloud IDE MERN, WebSocket, AWS S3, GCP, Docker, Kubernetes GitHub <ul style="list-style-type: none">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 productivityDeveloped authentication, resource provisioning, and coding-interface microservices and deployed them on Google Cloud Run using Docker images, to manage user access and resource allocationDeployed 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 usersIntegrated WebSocket communication between frontend and backend for seamless real-time collaboration, allowing multiple users to edit and execute code simultaneously	Oct 2024 – Nov 2024
Docu-LM ColPali, RAG, OpenAI GPT-4, ReactJS, NodeJS, Flask GitHub <ul style="list-style-type: none">Engineered a document retrieval system using RAG architecture, implementing image based page-level indexing to maintain visual context integrityImplemented an advanced document processing pipeline using ColPali for page-level indexing, enabling precise retrieval of contextual information from complex multi-page documentsDeveloped 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	Oct 2024

EXTRACURRICULAR

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