Vedant Mehta

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EDUCATION

Master of Science in Software Engineering	Aug 2024 – May 2026
San Jose State University, San Jose, United States	GPA: 3.9/4.0

Coursework: Deep Learning, Enterprise Software Platforms, Enterprise Distributed Systems, Data Mining

Bachelor of Technology in Computer Science and Engineering	Oct 2020 – June 2024
Nirma University, Ahmedabad, India	

Coursework: Machine Learning, Cloud Computing, Data Structures and Algorithms, Database Management Systems, Operating Systems, Object Oriented Programming, Computer Networks, Big Data Analytics, Information Retrieval Systems

SKILLS

Programming: Python, Java, JavaScript, TypeScript, C++, C, SQL
Web Technologies: HTML/CSS, ReactJS, NodeJS, ExpressJS, Django, Flask, Streamlit, Bootstrap, AJAX, jQuery
Machine Learning Libraries: Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, Keras, TensorFlow, PyTorch
Virtualization & Version Control: Git/GitHub, AWS, GCP, Docker, Kubernetes, Kafka
Databases: RDBMS, MySQL, MongoDB, Firebase, SQLite

EXPERIENCE

Software Engineer Intern, Techsture Technologies | Ahmedabad, India — Jan 2024 – May 2024

- Designed and implemented a custom ERP system for organization's intranet network using Django framework
- 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%
- Implemented role-based access control and multi-factor authentication to ensure secure access to organization's portals and enhancing data protection

Summer Intern, Northern Trust | Pune, India — June 2023 – Aug 2023

- Surveyed about possible utterances (keywords) entered by user for a particular workflow of a virtual agent chatbot on the ServiceNow platform
- Integrated Natural Language Understanding into existing workflows enabling automatic workflow execution by recognizing intent of user based on utterances
- 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

PROJECTS

Cloud IDE | MERN, WebSocket, AWS S3, GCP, Docker, Kubernetes | GitHub — Oct 2024 – Nov 2024

- 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
- 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
- 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 multiple concurrent users
- Integrated WebSocket communication for seamless real-time collaboration, allowing multiple users to edit and execute code simultaneously

Docu-LM | ColPali, RAG, OpenAI GPT-4, ReactJS, NodeJS, Flask | GitHub — Oct 2024

- Engineered a document retrieval system using RAG architecture, implementing image based page-level indexing to maintain visual context integrity
- Implemented an advanced document processing pipeline using ColPali for page-level indexing, enabling precise retrieval of contextual information from complex multi-page documents
- 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

EXTRACURRICULAR

Computer Society of India, Nirma University | Executive Member — Nov 2020 – Dec 2023

- Assisted in organizing and executing various hackathons and coding events
- Mentored new club members, helping enhance coding skills and offering general support and guidance