

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, Data Mining</i>	Aug 2024 – May 2026 GPA: 3.66/4.0
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, SQL
Web & Software Development	HTML/CSS, React.js, Node.js, Express.js, Next.js, Django, Flask
Data Science	Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, Keras
Big Data & Streaming	Apache Kafka, Hadoop, Spark, NoSQL Databases
Databases & Storage	PostgreSQL, MySQL, MongoDB, Firebase, SQLite
Cloud, DevOps & Automation	AWS, GCP, Docker, Kubernetes, KubeVirt, Jenkins, Terraform
OS & Version Control	Linux, Unix, Bash, Git/GitHub

EXPERIENCE

Software Engineer Intern, Juniper Networks Sunnyvale, US <ul style="list-style-type: none">Deployed Juniper vSRX firewalls in Kubernetes using KubeVirt, enabling full-featured virtual firewall support in containerized environments where cSRX was insufficientDesigned and implemented Helm charts to automate deployment of multiple vSRX network topologies, including single-node and high-availability multi-node architecturesProvisioned a bare-metal Kubernetes cluster using kubeadm with Calico CNI, integrating Multus to enable complex bridge-based networking across VMs and podsOptimized image provisioning by using DataVolume cloning instead of virtctl upload, achieving a 100% reduction in external client-to-cluster bandwidth usage	May 2025 – Aug 2025
Software Engineer Intern, Techsture Technologies Ahmedabad, India <ul style="list-style-type: none">Developed a custom ERP system using Django, integrating HR functions like payslip generation, attendance tracking, event and task management, and leave approvalImplemented role-based access control and multi-factor authentication to ensure secure and protected access across the organization's intranet portals	Jan 2024 – May 2024
Summer Intern, Northern Trust Pune, India <ul style="list-style-type: none">Integrated Natural Language Understanding into ServiceNow virtual agent workflows by surveying user utterances and mapping intents, enabling automatic execution and reducing IT help desk calls by 50%Developed JavaScript functionality to monitor real-time status of critical services, displaying availability and error notifications for Microsoft and internal applications	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