

Vedant Mehta

San Jose, CA | (408) 210-4672 | mehtavedant8@gmail.com | linkedin.com/in/vedantmehta14 | vedantmehta.me

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: 3.66/4.00
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, Go, C++, C, SQL
Web & Software Development	React.js, Node.js, Express.js, Next.js, Django, Flask, HTML/CSS
Data Science & ML	Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, Keras
Big Data & Streaming	Apache Kafka, Hadoop, Spark, NoSQL Databases
Databases & Storage	PostgreSQL, MySQL, MongoDB, 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	May 2025 – Aug 2025
<ul style="list-style-type: none">Deployed Juniper vSRX (VM-based) firewalls in Kubernetes using KubeVirt, allowing full-featured firewall support in containerized environments where cSRX (container-based) firewalls were insufficientReduced topology setup time from 4 minutes to 1 minute by automating deployment of single-node and high-availability multi-node vSRX network topologies using Helm chartsProvisioned a bare-metal Kubernetes cluster via kubectl with Calico CNI, incorporating Multus to enable complex bridge-based networking across VMs and podsOptimized image provisioning leveraging DataVolume cloning instead of virtctl upload, decreasing provisioning time from 9s to 4s and eliminating external client-to-cluster bandwidth usage	
Software Engineer Intern, Techsture Technologies Ahmedabad, India	Jan 2024 – May 2024
<ul style="list-style-type: none">Built 5 ERP modules with Django and React, streamlining payroll, attendance, event, task, and leave processesImplemented role-based access control and multi-factor authentication to ensure secure access across the organization's intranet portals	
Summer Intern, Northern Trust Pune, India	June 2023 – Aug 2023
<ul style="list-style-type: none">Integrated Natural Language Understanding into ServiceNow virtual agent workflows by surveying user utterances and mapping intents, facilitating automatic execution and cutting down IT help desk calls by 50%Programmed JavaScript functionality to monitor real-time status of critical services, displaying availability and error notifications for Microsoft and internal applications	

Projects

Cloud IDE MERN, WebSocket, AWS S3, GCP, Docker, Kubernetes GitHub	Oct 2024 – Nov 2024
<ul style="list-style-type: none">Architected a secure, collaborative cloud IDE via MERN with real-time multi-user code editing and an integrated AI assistant providing contextual coding suggestions based on project-specific files, enhancing user productivityOrchestrated 3 microservices (authentication, resource provisioning, and coding interface) on Google Cloud Run utilizing Docker images, empowering efficient user access management and resource allocationConfigured an auto-scaling Kubernetes cluster on Google Kubernetes Engine with a minimum of 2 and maximum of 5 E2-standard-8 nodes, providing on-demand scaling of user environments, resource isolation through dedicated containers, and reliable performance for 150+ concurrent usersFacilitated WebSocket communication between frontend and backend 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
<ul style="list-style-type: none">Engineered a document retrieval system through RAG architecture, implementing image-based, page-level indexing to maintain visual context integrityDevised an advanced document processing pipeline via ColPali for page-level indexing, enabling precise retrieval of contextual information from complex multi-page documentsDesigned a user-friendly React interface allowing users to upload documents, incorporating an intelligent chatbot leveraging GPT-4 to provide comprehensive answers by analyzing charts, graphs, and text	