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, Distributed Systems, Enterprise Application Development, 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, Computer Vision, Statistics

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	AWS RDS, 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 May 2025 – Aug 2025
- Deployed Juniper vSRX firewalls in Kubernetes using KubeVirt, enabling full-featured virtual firewall support in containerized environments where cSRX was insufficient
- Designed and implemented Helm charts to automate deployment of multiple vSRX network topologies, including single-node and high-availability multi-node architectures
- Provisioned a bare-metal Kubernetes cluster using kubeadm with Calico CNI, integrating Multus to enable complex bridge-based networking across VMs and pods
- Optimized image provisioning by using DataVolume cloning instead of virtctl upload, achieving a 100% reduction in external client-to-cluster bandwidth usage

Software Engineer Intern, Techsture Technologies | Ahmedabad, India Jan 2024 – May 2024
- Developed a custom ERP system using Django, integrating HR functions like payslip generation, attendance tracking, event and task management, and leave approval
- Implemented role-based access control and multi-factor authentication to ensure secure and protected access across the organization's intranet portals

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

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 up to 100 concurrent users
- Integrated 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
- 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