

# Sahil Shetty

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## EDUCATION

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### California State University, Chico

Master of Science, Computer Science

Aug 2021 - May 2023

Chico, CA

### University of Mumbai

Bachelor of Engineering, Computer Engineering

Aug 2016 - May 2019

Mumbai, India

## EXPERIENCE

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### E-470 Public Highway Authority

Senior Software Engineer

May 2024 - Present

Denver, CO

- Owned and operated production-grade systems for data-intensive applications handling millions of financial transactions, ensuring high availability, reliability, and low-latency performance.
- Led architectural redesign from a tightly coupled system to an event-driven architecture using Azure Service Bus, OAuth 2.0, and Azure Blob Storage, improving scalability, decoupling, and fault tolerance.
- Designed and optimized SQL Server data pipelines and complex stored procedures for high-volume financial reporting, reducing query latency by 30% through schema design and indexing strategies; implemented caching to further improve API response times.
- Migrated legacy systems from TFS to GitHub and built CI/CD pipelines, increasing deployment efficiency by 20%; developed secure, cloud-native data archival workflows using MSAL-based OAuth 2.0 and SharePoint, enabling scalable cloud storage.

### Truss health

Software Engineer (Founding Engineer)

Nov 2023 - Apr 2024

Fremont, CA

- Architected and delivered MVP for a real-time motion analysis system using MediaPipe, achieving 70% accuracy and reducing manual intervention by 25%; designed scalable, high-throughput backend services for real-time health data processing.
- Designed and implemented scalable REST APIs using Node.js and Prisma, enabling efficient ingestion, processing, and data integrity for real-time, data-intensive applications.
- Improved system reliability and delivery through end-to-end observability reducing MTTR by 30%, and architected CI/CD pipelines on GCP with robust error handling, increasing deployment frequency by 25% and accelerating release cycles.

### Vettx

Software Engineer

Aug 2022 - Oct 2023

Chico, CA

- Owned end-to-end development of CRM platform features, translating business requirements into scalable, production-grade systems across backend and frontend components.
- Designed and implemented scalable REST APIs using NestJS and Prisma, ensuring data integrity and improving delivery efficiency by 15% through well-defined API contracts and Swagger-based testing.
- Developed CI/CD pipelines on GCP with automated testing (Jest) and integrated backend services with internal billing systems, enabling reliable deployments and improving operational efficiency.

### HDFC Bank

Software Engineer

Oct 2020 - Jul 2021

Mumbai, India

- Re-engineered invoice payment system tracking to decrease the paperwork required to generate invoice bills for different agencies.
- Designed API contracts and implemented data retrieval for generating invoice bill reducing human intervention by 20%
- Performed integration with internal tool for customer progress tracking with invoice billing team to improve CRM portal management.
- Synchronized goals based on client expectations and provided necessary improvement changes with a team of 5 engineers.

## PROJECTS

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### ADAS Lane Departure and Pedestrian Warning System

- Vision based algorithm and augmented features to detect lane and spot pedestrians while driving for video surge.
- Conceptualized a simple and intuitive UI to view the places and things of interest by setting the region of interest.

### Developed an Inventory System for Tracking Requests

- Pioneered and collaborated an inventory management system with APIs to manage request and deployed on AWS and GCP.
- Generated tabular grid view of data with CRUD options to inculcate operations for the customers portal management and integrated the modules.

## SKILLS

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- Core Competencies:** Distributed System, API Design, High-Scale Backend Architecture, System Design, Observability, Performance optimization
- Programming languages:** C++, C#, JavaScript, TypeScript, Python, PowerShell
- Front-end Technologies:** HTML, CSS, Bootstrap, Tailwind CSS, ReactJS, jQuery, Mantine
- Backend & Framework:** NodeJS, Django, MongoDB, .NET, Prisma, TypeORM
- Cloud & DevOps:** Docker, GCP, AWS, Cloud Build, Triggers, Cloud Run, GKE, Compute Engine, Kubernetes
- Database:** MySQL, MongoDB, PostgreSQL, Redis