

Sahil Dayanand Shetty

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Skills

Programming languages : C++, C#, JavaScript, TypeScript, Python, SQL, Java

Front-end Technologies : HTML, CSS, Bootstrap, Tailwind CSS, ReactJS, Angular, jQuery, Mantine

Back-end technologies : NodeJS, Django, MongoDB, ASP .NET MVC, Prisma, TypeORM

Deployment and Cloud technologies : Docker, GCP, AWS, Cloud Build, Triggers, Cloud Run, GKE, Compute Engine

Database : MySQL, MongoDB, RDBMS

Version management and testing : GitHub, Jira, Confluence, Test Driven Development (TDD), Behavior Driven Development (BDD), Jest, Cypress

Experience

Software Engineer | Trusshealth | Fremont, CA

Nov 2023 – present

- Spearheaded automation for Active Range of Motion for post-patient recovery data in real-time with an accuracy of 90% by providing virtual assistance and **reducing the need of human intervention by 50%** leveraging media-pipe machine learning library.
- Engineered and designed scalable API using JavaScript, NodeJS and Prisma using RDBMS.
- Improved debugging process to accelerate the development and manage error handling in **CI/CD pipeline** with **Cypress** to ensure quality and reliability of the code.
- Developed and maintained monitoring and alerting systems, reducing mean time to resolution by 30% and improving system availability by 25%.
- Designed and managed a fully **automated CI/CD pipeline** on **GCP**, eliminating manual deployment and increasing deployment frequency by 75%.

Software Engineer | Vettx | Chico, CA

Aug 2022 – Oct 2023

- Involved in all the phases of **SDLC** including Requirements Collection, Design and Analysis of the Customer Specifications, Development and Customization of the Application.
- Designed **scalable APIs** using NestJS and Prisma following **MVC structure** and maintain data integrity to query over database.
- Involved in front-end development for an interactive application using ReactJS and TypeScript for **seamless user experience**.
- Implemented Continuous Integration/ Continuous Development pipeline on Google cloud platform for the CRM portal along with **JEST** for unit testing.
- Tested the APIs using swagger, postman.

Computer Student Assistant | CSU Chico | Chico, CA

Aug 2021 – May 2023

- Troubleshoot software and hardware issues on campus in collaboration in small teams.
- Website maintenance and support using MySQL database, ReactJS, RESTful API and JavaScript.
- Streamlined the process to provide Customer support with Software and IT infrastructure.
- Enhanced customer satisfaction by delivering timely and effective solutions to diverse technical challenges, fostering a positive user experience across the campus community.
- Implemented a customer feedback loop to continuously improve support services, leading to a marked increase in support efficiency and user engagement.

Software Engineer | HDFC Bank | Mumbai, IN

Oct 2020 – Jul 2021

- Engineered the requirement gathering and illustration of web pages to get the layout of the product using agile methodology.
- Re-engineered invoice payment system tracking to decrease the paperwork required to generate invoice bills.
- Synchronized goals based on client expectations and provided necessary improvement changes with a team of 5 engineers.
- Executed complex SQL queries to validate data and perform API testing using POSTMAN and mobilized Jira to raise bugs.

Education

Masters in Computer Science – California State University Chico | GPA : **3.7/4.0**

Aug 2021 – May 2023

Relevant Courses : Applied Machine Learning, Advance Algorithms and Complexity, Applied Computer Vision, Web Technology, Operating System, Computer Security

Bachelors in Computer Engineering – University of Mumbai | **3.1/4.0**

Aug 2016 – May 2019

Relevant Courses : Analysis of Algorithms, Software Engineering, Image Processing, Big Data Analysis

Certifications and Publications

- **Certification on ASP .NET Core and angular** | Signal R, Cloudinary, Docker, JWT **Aug 2023**
- **Certified AWS cloud practitioner** **Dec 2022**
- **Research paper** on Remote Sensing Technique For Monitoring And Reducing Harmful Gas Emission from Vehicles (Published at ResearchGate) **Mar 2019**

Achievements

- **Hackathon - Robo Galaxy (IISc Bangalore) | Top 6** | Java, C++ **Dec 2014**
- **Hackathon - Rajasthan Government(Internet of Things) | Finalist** | JavaScript, OpenCV, Firebase, Raspberry Pi **Mar 2019**

Projects

Food Delivery App | ReactJS, JavaScript, CSS, Tailwind CSS, **Redux-Toolkit**

Jan 2023 – May 2023

- Enforced config driven UI for enhanced functionality, and various UI enhancements, while implementing authentication, **reusable components**.
- Ensured data integrity with meticulous **validation process** and leveraged live API for real-time data and search functionality.

ADAS Lane Departure and Pedestrian Warning System | **OpenCV**, C++, Jetson nano, Ubuntu

Jan 2022 – May 2022

- Vision based algorithm and augmented features to detect right 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 Resources | **MySql** JavaScript, MongoDB, GCP, AWS, RectJS

Aug 2022 – Dec 2022

- Pioneered and collaborated an inventory management system with APIs to manage request and deploy 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.