

Keyur Savalia

San Francisco, CA 94132 | +1(415)349-1732 | [e-Mail](#) | [LinkedIn](#) | [GitHub](#)

Education

San Francisco State University

MS in Computer Science (First Semester)

San Francisco, CA

August 2024 - Present

Gujarat Technological University

BE in Computer Engineering (GPA: 3.84)

Ahmedabad, India

August 2020 - June 2024

Skills

Programming Languages: C | C++ | Java | JavaScript | Python | Swift

Frameworks: React.js | Node.js | Express.js | MongoDB | MySQL | NoSQL | PostgreSQL | Rest API | Git | GitHub | Azure | AWS

Area(s) of Interest: Software Development | iOS Development | Frontend | Backend | Data Structures | Algorithms

Internship Experience

Krishna Engineering

Junior Software Engineer Intern

Ahmedabad, India

January 2024 - May 2024

Project: Steriluxe

- Designed front-end of the web application using **React.js**, improving visual appeal through interactive elements and personalization.
- Developed back-end using **Node.js** and **Express.js**, reducing server response time by 40%. Managed a **MongoDB** database, handling over 1000 product entries with high efficiency.
- Implemented scalable **RESTful APIs** for seamless communication between the front-end and database, decreasing data retrieval time by 25%, enhancing the overall app speed and user experience.
- Integrated 3D models using **Three.js** and **WebGL**, which led to a 50% increase in user interaction time. The rich 3D experience resulted in a 20% rise in product page conversions.

Brainy Beam Technologies PVT. LTD.

Data Science Intern

Ahmedabad, India

June 2023 - August 2023

Project: Vision Smith

- Implemented a **CNN-based model for image classification** and fine-tuned the model hyperparameters using libraries like **TensorFlow** and **Keras**.
- Streamlined transfer learning with pre-trained models (VGG16 and ResNet), improving model accuracy by 42% over baseline.
- Achieved 83% accuracy on CIFAR-10 and deployed the trained model as a **REST API** using **Flask**, enabling real-time image classification via a web interface, and integrated it with a cloud-based platform (**AWS**) for scalable deployment and seamless user interaction.

Projects

Stock-Home

September 2023 - December 2023

- Architected a real-time stock market dashboard using the **MERN stack** and **Next.js**, integrating WebSocket for dynamic stock price updates with an update frequency of every 1 second, resulting in a 30% improvement in data refresh rates compared to traditional polling methods.
- Implemented an interactive data visualization using **D3.js** and **Chart.js** to display historical stock data, enabling users to track trends over time.
- Utilized **advanced DSA** (dynamic programming, heaps, greedy algorithms) for efficient stock filtering, sorting, and recommendations.
- Enhanced **SEO** and performance with Next.js for server-side rendering, achieving a 60% improvement in page load times and a 25% increase in organic search traffic.
- Optimized application security with **JWT** and role-based access control (**RBAC**), resulting in a 35% reduction in unauthorized access attempts.

Code Craft

March 2023 - May 2023

- Built a **live coding platform** using MERN stack and Next.js to simulate real-world interviews and integrated dynamic problem-solving capabilities with real-time evaluation.
- Constructed a personalized recommendation engine using DSA (**sorting algorithms and priority queues**) which suggested coding problems based on user's previous performance.
- Programmed a real-time leaderboard using **heap** and **binary search tree** algorithms which implemented a ranking system for users.
- Designed efficient database structures to store and retrieve user progress, interview history, and leaderboard rankings and deployed the platform using Next.js for server-side rendering (SSR) and SEO optimization.