

Shreyas Yadav

Software Engineer

 Portfolio  GitHub  LinkedIn  Email  415-594-7919

EXPERIENCE

AMERICAN BUREAU OF SHIPPING

SOFTWARE ENGINEERING INTERN
January 2023 - May 2023 | Pune, India

A global organization providing classification and technical advisory services to the marine and offshore industries.

- Developed an internal employee rating system used by 400+ employees, reducing performance evaluation processing time by 35%, which improved workflow efficiency and eliminated manual paperwork.
- Engineered REST APIs for the Freedom for Survey project, synchronizing data between Oracle Database and IBM Maximo in real-time, which improved report generation efficiency by 40

STARKTECH VENTURES PVT LTD.

WEB DEVELOPER INTERN
Oct 2021 - April 2022 | Pune, India

A company focused on manufacturing innovative poultry farming hi-tech equipment, aiming to empower the poultry industry through high-tech solutions.

- Redesigned the company website using Laravel and JavaScript, reducing load time by 60%, which boosted user engagement by 25%.
- Integrated a secure payment gateway that processed 500+ transactions monthly, improving conversion rates by 18% and reducing checkout abandonment.

PROJECTS

NETWORK PATH COMPRESSION ANALYSIS SYSTEM | C, WIREFRAME, LINUX

- Developed an end-to-end network compression detection applications by implementing client/server and standalone solutions using raw sockets and UDP packet trains, enabling network engineers to identify compression links with 100 ms precision.
- Engineered a robust network analysis tool by creating multi-phase detection protocols with configurable parameters, resulting in successful compression detection across both cooperative and uncooperative network environments.

WIREFRAME TO CODE | TYPESCRIPT, NEXT.JS, FIREBASE, NEONDB, TAILWIND LINK

- Engineered a full-stack Wireframe-to-Code application by integrating Firebase authentication and OpenRouter API, resulting in 2 times faster prototype development for users converting design mockups to functional code.
- Architected a responsive AI-powered code generation platform by implementing Tailwind UI components and NeonDB integration, enabling designers to transform wireframes into production-ready code with 60% accuracy.

BACKUP BRAIN (AI CHAT-APP) | PYTHON, FASTAPI, WEBSOCKETS, OPENROUTER, LLM'S LINK

- Engineered a real-time chat application using FastAPI and WebSocket, enabling 100% context preservation, improving user interaction quality across multiple sessions.
- Developed a context relevance checker, improving conversation quality by 40%, which prompted users to start new chats when the context changed.

AIRBNB CLONE | JAVASCRIPT, REACT, MONGODB, EXPRESS.JS, NODE.JS LINK

- Implemented secure user authentication using the MERN stack, increasing profile security by 100% and improving user registration and login processes.
- Designed an intuitive property listing system with advanced search functionality, improving user search precision by 60%, which reduced time-to-booking by 25%.

SELF DRIVING CAR | PYTHON, NUMPY, OPENCV, RASPBERRY PI LINK

- Developed a Raspberry Pi self-driving car with OpenCV lane detection, using thresholding and pixel summation to calculate and stabilize path curvature for motor control. The system was tuned using real-time video feedback and adjustable parameters to optimize lane detection accuracy.
- Implemented a modular design for webcam, lane detection, and motor control on a Raspberry Pi, processing real-time video to autonomously steer the vehicle.

SKILLS

PROGRAMMING

Proficient:
Java, Python, SQL, Javascript, C++, Shell Scripting, C

LIBRARIES/Frameworks

React, jQuery, Node.js, Spring Boot, Laravel, Next.js, Bootstrap, Tailwind, React Native, FastAPI

TOOLS/PLATFORMS

MySQL, Postgres, AWS, Firebase, MongoDB, Docker, Vercel, Render, Git, Maven, Openrouter, Agile, Postman, Google Notebook

EDUCATION

UNIVERSITY OF SAN FRANCISCO

MS COMPUTER SCIENCE
Aug 2024 - Present | San Francisco, CA

RIT, SHIVAJI UNIVERSITY

B.TECH COMPUTER ENGINEERING
2019-2023 | Maharashtra, India

COURSE WORK

Data Structures
Algorithms
Generative AI
Machine Learning
Operating Systems (Linux)
Computer Networking
Software Development
Object Oriented Programming
Database Management System

AWARD

RISING STAR (2021)

NATIONAL UNIVERSITY OF
KAOHSIUNG, TAIWAN LINK
Awarded for developing an innovative floor-cleaning machine prototype designed to conserve water and electricity.

EXTRACURRICULAR

HACKATHON COMMITTEE HEAD 2022

MANAGED END-TO-END PLANNING, INCLUDING LOGISTICS, SPONSORSHIPS, AND TECHNICAL SETUP, DEMONSTRATING STRONG PROJECT MANAGEMENT AND LEADERSHIP SKILLS.