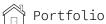
# **Shreyas** Yadav

## Software Engineer











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
- → 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 Al-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
- → 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

- → 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 optimist 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 FRAN-**CISCO**

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 Al 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.