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# Varun Shrivastav

Software Engineer

## SUMMARY

Experienced software engineer, skilled in full-stack web development, proficient in technologies like **MERN** stack, **Django** and **MySQL**, Immediate joiner with excellent problem-solving and analytical skills, and the ability to adapt to any environment very quickly.

## EXPERIENCE

### Software Engineer

Feb '24 - Present

#### Big Brand Bucket

remote

- Building an ecommerce web application for a card printing business similar to Vistaprint, along with a portal for visa services and an online store for selling home decoration products. Utilizing **Node.js**, **React.js**, **Prisma**, **Redux**, **MySQL** and **Tailwind CSS**.
- Fixed **CORS** error by creating a Node.js **proxy** server, adjusted **Nginx** settings, and addressed system **bugs** and **security** issues.
- Improved load time and solved bugs of **React.js** application by implementing **code splitting**, **lazy loading** and configuring **Webpack**.
- Developed a web application for sending invoices to customers using **PayPal API** and **Django Framework**.
- Created a Telegram bot with **Node.js** for group management, featuring a **user-friendly** interface.

## PROJECTS

### Social Media Web App featuring AI Powered Multiplayer Game

- Included features such as a Friends system, **real-time** personal and group messaging, instant **notifications**, email OTP verification.
- Car Simulation game with ADAS built with a **neural network**, device **orientation controls**, street light animations, real-time lead board.
- [Tech Stack](#) Django, Channels, REST, MySQL, Celery, Redis, WebSocket, Bootstrap, HTML Canvas, JavaScript, CSS [Github](#) [Game](#) [Demo](#)

### XP ChatBot for Telegram Groups with Ranking System

- A versatile chatbot with a **wide range of XP commands** to monitor and manage member rankings and levels in telegram groups.
- The bot offers a **note-taking** app, **script runner** for Python and JavaScript, OCR, news fetching, and **OpenAI** powered conversations.
- [Tech Stack](#) PyTelegramBotAPI, MongoDB, FastAPI, Nodejs, AWS Lambda, DynamoDB, Docker, Nginx, News API [Github](#) [Bot](#) [Demo](#)

### Collaborative Whiteboard Web Application

- A **drawing** application that enables users to register, create or join rooms, **create art together** and save their creations in **real-time**.
- Users can communicate with each other within rooms through real-time **text chat** or engage in peer-to-peer **video chat**.
- [Tech Stack](#) Django REST Framework, React JS, Channels, MySQL, Node.js, WebSocket, HTML Canvas, PeerJS [Github](#) [Demo](#)

### Browser Extension for Keeping Bookmarks

- A browser extension that lets users **signup** and **login** to save and access bookmarks on **multiple browsers and devices**.
- Enforced **load balancing** for backend scaling and integrated **caching** to improve performance and reduce server expenses.
- [Tech Stack](#) MongoDB, Express.js, React.js, Node.js, Redis, Nginx, Docker, AWS EC2, JWT [Github](#) [Demo](#)

## DISSERTATION

### Overview of Reinforcement Learning with Tic Tac Toe and Python

- Built a **decision tree model** for **machine learning** mode, integrated a **minimax** mode and added a **player-vs-player** mode.
- Utilized **memorization**, **eliminated symmetrical states** in the minimax algorithm, and **improved runtime** efficiency by up to **97%**.
- [Tech Stack](#) Pygame, Numpy, Pickle, Pygbag [Github](#) [Play](#) [Demo](#)

## KEY SKILLS

• Python • Django • MySQL • React.js • Node.js • MongoDB • Machine Learning • Git • Docker • Data Structures • Algorithms

## EDUCATION

B.Sc. Hons. Electronic Science | SGTBK Delhi University ( 2023 )

Class 12 CBSE | Dayawati Modi Academy Meerut ( 2020 )

Class 10 CBSE | Dayawati Modi Academy Meerut ( 2018 )