VAGESHWARI CHAUDHARY

Software Engineer

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EXPERIENCE

Trilogy Innovations(CodeNation)

Software Developer Intern

May 2024 – July 2024   *Remote, India*

- Developed a modular React chatbot kit for a Chrome extension, enabling customizable and extensible functionality.
- Boosted user engagement by 30% by incorporating a 3D avatar feature generated with Polywink.
- Implemented a WebSocket connection to transmit audio and viseme data, enabling realistic lip-syncing for the avatar.
- Optimized performance by reducing file size by 20% through efficient use of Webpack and code-splitting strategies.
- Showcased expertise in React.js, TypeScript, Three.js, and WebSockets, contributing to the project's success.

Attentive.ai

Software Developer Intern

Nov 2024 – Jan 2025   *Remote, India*

- Developed a cost-efficient notification service algorithm within the central engineering team.
- Optimizing attachment consolidation to enhance user engagement and lower email costs by approximately 25%.
- Engineered a granular view-level string permission system in Django, strengthening security and access control, resulting in a 30% reduction in unauthorized access incidents and improved data protection compliance.
- Implemented Redis across microservices for caching, task queuing, and scheduling, decreasing average API response time by around 2.5 seconds and enhancing scalability.

ACHIEVEMENTS

- Solved Over **500 Coding Questions** on various Platforms like leetcode, GeekforGeeks, and coding Ninja.
- 4th rank out of 500 participants in teckathon 3.0 which was a university level hackathon.
- Participated in **Smart India Hackathon (SIH)** and worked on real-time problem statements, like development of AIML based models for predicting prices of agri-horticultural commodities.
- Summer internship offered by Metacrafters (remote), which was stipend based:
  - JS Proof: Beginner Course
  - ETH PROOF: Beginner EVM Course
  - ETH + AVAX PROOF: Intermediate EVM Course
  - POLY PROOF: Advanced

EDUCATION

B.E. (Computer Science & Engineering)

Chandigarh University   **7.9 CGPA**
2021 – 2025   Chandigarh, India

TECHNICAL SKILLS

- **Languages:** C, C++, Java, JavaScript, Python, Solidity
- **Frameworks/Libraries:** React.js, Node.js, Next.js, Express.js, Springboot, Django, EJS, Hardhat, Ethers.js
- **Databases:** MySQL, MongoDB, Cassandra, Redis
- **DevOps:** Docker, Kubernetes, AWS

PROJECTS

BeatFlow – A Music App   **GitHub**

- **Tech Stack:** React.js, Next.js
- Allows users to stream, manage, and interact with music tracks through a responsive and dynamic interface.
- Recommend songs based on user mood or listening patterns using ML integrated through backend APIs.
- Multiple users can control or edit a shared playlist in real-time using WebSockets (Socket.io).
- Control playback or search using Web Speech API for voice recognition.

Alzheimer's disease detection system   **GitHub**

- **Tech Stack:** Jupyter Notebook, Python, Anaconda
- Utilizes MRI scans, cognitive test data, or clinical records, processes images with OpenCV and NiBabel, and tabular data with Pandas.
- Assesses model performance using accuracy, F1-score, and ROC-AUC, and optimizes through hyperparameter tuning, and data augmentation techniques.
- Deploys via Streamlit or Flask for a web-based diagnostic tool, integrates TensorFlow Lite for mobile applications, and supports cloud-based training on AWS/GCP for scalability.

BlinkChat - A Chatting App   **GitHub**

- **Tech Stack:** MERN Stack
- Implements Socket.io for instant one-on-one and group messaging, along with features like typing indicators, read receipts, and online/offline status.
- Uses MongoDB for storing chat history, Express.js & Node.js for backend APIs, React.js for a responsive frontend, and JWT authentication for secure user login.
- Allows users to send images, videos, and files, and integrates push notifications using Firebase or Web Push API for real-time message alerts.