Sai Byrraju

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WORK EXPERIENCE

7C Lingo | *Software Engineer* February 2025 – Present
- Developed a real-time AI interviewer platform integrating **WebRTC, Realtime API, and Supabase** to streamline the hiring process and reduce manual screening time by over **90%**
- Optimized interview sessions using **finite state machine (FSM)** logic to reduce latency and memory usage, while maintaining structured response logging for scalable candidate analysis
- Built an interactive recruiter dashboard in **Next.js** with **TypeScript**, featuring applicant filtering, session playback, and full interview analytics using **PostgreSQL** queries.
- Led comprehensive QA testing across 7C's mobile and web platforms, validating job flows, state-dependent UI behavior, and multi-channel interactions, enhancing reliability and reducing disruptions across all user roles

Tech Mahindra | *IT Intern* June 2024 – August 2024
- Optimized BI charts to track key metrics at Jackson National, delivering revenue-generating insights to stakeholders
- Leveraged **Azure** to manage the Enterprise Data Platform and deliver analytical insights, driving a **19%** reduction in operational expenses
- Streamlined data workflows and infrastructure with advanced data engineering, improving workflow efficiency

Whirlpool | *Capstone Full-stack Developer* January 2024 – May 2024
- Developed a smart oven API utilizing **BERT**, now is being integrated into Whirlpool's ovens, to provide personalized recipe recommendations based on user cooking habits, enhancing user engagement and satisfaction
- Built a full-stack mobile-compatible application with **Dart** and a dashboard using **JavaScript** and **Plotly**, enhancing user experience through iterative UI restructuring
- Conducted test driven development, achieving **92% model accuracy** over 100+ user tests

PROJECTS

Real-Time Crypto Trading Bot | *Python, JavaScript, Web3* January 2025
- Engineered a real-time meme coin monitoring system using **Tweepy** and **Twitter API v2** to extract contract addresses
- Improved trade decision-making by implementing **DEX Screener API** for liquidity and market cap validation
- Optimized Solana transactions using **Web3**, for faster and more efficient trades

Job Preparation Platform | *React, Node.js, Python* December 2024
- Built an intelligent job prep tool using **React**, **Flask**, and **NLP** via **Hugging Face Transformers** to generate custom coding questions from job descriptions
- Designed a real-time code execution engine with **Piston API**, supporting multiple languages (Python, C++, Java, C) for dynamic interview preparation

SKILLS

Programming Languages: Python, JavaScript, TypeScript, C++, SQL, Dart, HTML, CSS
Frameworks / Tools: Node.js, Angular.js, React.js, MongoDB, Git, Docker, Flutter, FastAPI, TensorFlow, Pytorch, Azure
Certifications: Agile Development (LinkedIn), CE in Software Development (Microsoft)

EDUCATION

Michigan State University | *College of Engineering, Honors College* December 2024
Bachelor of Science, Computer Science | GPA 3.69 | Dean's List – 6 semesters
Minor in Business and Computational Mathematics

LEADERSHIP & INVOLVEMENT

- Student Accountant | MSU Business and Financial Services (BFS)
- Teaching Assistant & Tutoring | MSU
- Association for Computing Machinery (ACM) | AI Project Manager | Michigan State University