

Sai Byrraju

+1 (517) 402-6868 | byrrajus@msu.edu | linkedin.com/in/SaiByrraju | saibyrraju.com

SKILLS

Languages Python, TypeScript, JavaScript, SQL, Dart
Frameworks & Tools FastAPI, PyTorch, Node.js, Next.js, React
Cloud & DevOps AWS (Lambda, API Gateway, ECR, S3), GCP, Docker, Git, PostgreSQL, MongoDB

WORK EXPERIENCE

7C Lingo | *Software Engineer* February 2025 – Present

- Owned and Shipped the MVP for a real-time AI interviewer platform handling 1,200+ interviews across 15 job postings, reducing recruiter review time per candidate from 20–30 minutes to under 3 minutes
- Improved end-to-end latency from 1340ms to 850ms by refactoring model pipelines and audio processing
- Built a Next.js dashboard enabling applicant filtering, interview playback, and insights using PostgreSQL and AWS S3 for 500+ monthly applicants
- Designed the multi-tenant Task Management System (TMS) architecture using FastAPI and a serverless stack (AWS Lambda/API Gateway/RDS/ECR/S3), implementing RBAC and audit logging
- Delivered the TMS initial version, featuring 50+ API endpoints, 13 database models, 19 Alembic migrations, and a 16-page Next.js frontend

Tech Mahindra | *Software Engineering Intern* June 2024 – August 2024

- Supported cloud migration by running SQL-based analyses on legacy systems to identify migration candidates and data dependencies
- Resolved 20–30 technical support tickets across internal data tools, integrations, and access workflows, improving reliability during the migration period
- Updated internal documentation for smooth handoffs between support and data engineering teams

Whirlpool | *Capstone Full-stack Developer* January 2024 – May 2024

- Built a Dart-based smart oven interface connected to Whirlpool's appliance emulator and integrated FastAPI endpoints serving personalized recipe recommendations based on user behavior
- Developed a mobile-compatible UI and analytics dashboard (JavaScript + Plotly) for prototype evaluation by Whirlpool's food science team
- Applied test driven development, achieving 92% model accuracy over 100+ user tests

PROJECTS

Cloud-First Transcript Editor | *Next.js, FastAPI, WhisperX, GCP* October 2025

- Built a cloud-based transcript editor used internally to process 37 transcripts, integrating GCS uploads, WhisperX transcription, diarization, and segment-level editing
- Reduced Cloud Run cold starts from minutes to seconds through on-demand model loading and Docker layer optimization

Real-Time Crypto Trading Bot | *Python, JavaScript, Web3* January 2025

- Implemented a real-time monitoring system using Twitter API V2 to extract contract addresses
- Improved trade decision-making with DEX Screener API for liquidity and market cap validation
- Optimized Solana transactions using Web3, for faster and more efficient trades

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*