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portfolio (Personal)

Top Skills

Systems Design
Docker Products
WebSocket

Languages

Hindi (Full Professional)
Bengali (Native or Bilingual)
English (Full Professional)

Honors-Awards

Top performer

Joybrata Sarkar

Full Stack Engineer @ Impacteers | Microservices, AI Workflows & Scalable Systems
Chennai, Tamil Nadu, India

Summary

I'm a full-stack engineer with 3+ years of experience designing and scaling AI-driven platforms, with deep expertise in both backend architecture and front-end performance optimization. I've built production-ready systems that power real-time interviews, automated job matching, and enterprise-grade SaaS products in the HR tech space.

At Impacteers, I led the development of Zooper Smart ATS, designing microservices-based systems consumed by both internal and B2B clients. My work included building modular APIs for AI interview orchestration, JD generation, and candidate scoring — powered by FastAPI, LangGraph, Redis, and Wav2Vec2. I built low-latency pipelines and caching strategies that reduced JD generation time from 4s to 1ms.

Previously at Supersourcing, I shipped 3 full-fledged SaaS products — including an AI Interview Platform, ATS, and Vendor Management System — with scalable, maintainable architecture. I drove performance optimization using NgRx state management, lazy loading, and component-level caching. I also led front-end initiatives, conducted technical interviews, and mentored developers to uphold code quality across teams.

A highlight was building a real-time AI interview platform using FastAPI, LangChain, AssemblyAI TTS, and ElevenLabs STT — integrating advanced RAG, emotion recognition, and barge-in detection to simulate dynamic interviewer behavior.

Core Skills:

Python, FastAPI, LangChain, LangGraph, Hugging Face, Redis, Docker, WebSockets, Celery, MongoDB, Angular, NgRx, React, Microservices, System Design, AI Interview Systems, NLP, LLM Integration, TTS/STT, RAG

Let's connect if you're building AI-native platforms or looking for someone who blends deep technical execution with real-world product delivery.

Experience

Impacteers

Full Stack Engineer

December 2024 - Present (9 months)

Chennai, Tamil Nadu, India

- Zooper Smart ATS Development: Built AI-driven hiring platform from scratch, leading AI interview module and architecting scalable microservices system with Docker for independent deployment
- Speech Recognition Optimization: Fine-tuned Wav2Vec2-large-960h using Mozilla Common Voice datasets with CTC Loss Optimization, achieving 6% WER for high-accuracy transcription
- Performance Breakthrough: Engineered Job Description Creator using LangGraph and adaptive RAG, reducing generation time from 4s to 0.1ms through hybrid Redis caching strategy
- Advanced Search Architecture: Implemented MongoDB vector storage with Redis Search combining key-based and semantic caching for instant job description retrieval with cache invalidation for fresh results
- Intelligent Candidate Matching: Developed multi-modal scoring system routing between lexical, phonetic, and semantic search to generate relevance scores and detailed candidate reports
- Current Project: Developing comprehensive AI interview system with real-time capabilities

Supersourcing

Frontend Software Engineer

December 2022 - November 2024 (2 years)

Indore, Madhya Pradesh, India

Performance Optimization: Enhanced product performance and maintainability using NgRx state management, lazy loading, and component-level caching

Product Delivery: Successfully shipped 3 SaaS products (AI Interviews, ATS, Vendor Management) with clean, scalable code for enterprise infrastructure

AI Platform Development: Built real-time, low-latency AI interview platform with LangChain, FastAPI, AssemblyAI TTS, Eleven Labs STT, and advanced RAG

techniques. Implemented orchestration for interruption detection and emotion recognition

Technical Leadership: Led front-end development, participated in design reviews, and collaborated with cross-functional teams on technology decisions

Team Growth: Conducted technical interviews and hired developers; performed code reviews to maintain quality standards and improve team efficiency

BOT Shreyasi

10 months

Frontend Developer

July 2022 - November 2022 (5 months)

Manali, Himachal Pradesh, India

Build Campaign Builder Flowchart Similar to mautic campaign builder for Building Bot and Creating the intent

From the ATS Dashboard itself , The client can easily track,process,Create and recruit candidate more effectively.

- Collaborates closely with other technical experts, Product Managers, UI/UX Designers
- Adding new features onto the ATS application ,Example implementation of Resume Parser , onto the dashboard using Web Socket and Front end Technology and tools
- Extensively working on improving the application and its new features

Web Developer

February 2022 - July 2022 (6 months)

Manali, Himachal Pradesh, India

Wrote supporting code for web applications (ATS Dashboard).

Design and development web applications Using Frontend framework Angular ,

Backend framework Laravel and MySQL Database as backend

Worked On Campaign Builder Flowchart for the client to track,process and recruit candidate more effectively

Used angular custom directive and developed reusable component and template that can be reused at various places

Cooperating with the back-end developer in the process of building the RESTful API

extensively used Debugging using chrome developer tools

Education

Bhilai Institute of Technology (BIT), Durg

Master of Computer Applications - MCA, Computer Science · (June 2020 - July 2022)

Bangalore University

Bca, Computer Science · (2017 - 2020)

Kendriya Vidyalaya

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