

Subhash Balabommu

US Citizen | Franklin, WI | balabommu@wisc.edu | (312)-539-4801 | linkedin.com/in/subhash-balabommu/

Education

University of Wisconsin - Madison (Computer Sciences)

Expected Graduation May 2027

Coursework: Object-Oriented Programming, Data Structures & Algorithms, Computer Architecture, User Interface Development, Calculus, Discrete Mathematics

Skills

Programming: Python, Java, JavaScript, TypeScript, HTML, CSS

Frameworks: Next.js, React, Spring Boot, Spring AI, LangChain, Tailwind CSS

Tools: Git/GitHub, Jupyter Notebook, Vector Databases, REST APIs, WebSockets, PDF Parsing Libraries, SQL Databases (PostgreSQL / MySQL), Firebase, Docker

Concepts: LLMs, NLP, Retrieval-Augmented Generation (RAG), Prompt Engineering, Semantic Search, Vector Embeddings, Web Development, Backend API Design, Real-Time Systems, Data Analysis, Relational Databases, Parsing & ATS Systems

Experience

ADT/Brinks Home Security | Door-to-Door Sales Representative

Milwaukee, WI | June 2024 - Aug 2025

- Participated in direct customer outreach to identify and address homeowner security standards and provide tailored solutions through needs-based conversations
- Translated technical features to customers, provided proof of credibility, addressed product inquiries, and guided prospects through well-informed purchasing decisions
- Tracked homeowner interactions, follow-ups, outcomes, and customer satisfaction to stay organized and refine outreach strategies over time

Projects

Real-Time Voice Agent Interview Platform

Franklin, WI

Next.js, React, TypeScript, Node.js, WebSockets, OpenAI API, Tailwind CSS

Dec 2025

- Built a full-stack, real-time AI interview platform enabling 100+ simulations of voice-based technical and behavioral interviews
- Integrated OpenAI APIs and WebSockets to generate real-time, dynamic interview questions and support interactive interview simulations
- Designed a responsive full-stack architecture to manage session state, interview flow, and AI responses

AI-Powered Applicant Tracking System

Madison, WI

Next.js, JavaScript, OpenAI API, PDF Parsing, Natural Language Processing (NLP)

Aug 2025

- Developed an AI-driven applicant tracking system to evaluate resumes and candidate fit against job descriptions
- Implemented PDF text extraction and NLP-based processing to structure resume data and score candidates across key criteria
- Built an end-to-end 3-stage pipeline for resume uploads, AI Evaluations, and visualizing, which reduced manual resume review effort by ~60-70%

Audio Transcriber

Madison, WI

Java, Spring Boot, Spring AI, REST APIs, React, JavaScript

Jun 2025

- Built a full-stack audio transcription application using Spring Boot and React with 6+ REST API endpoints
- Integrated Spring AI to process audio 1-5 minute files and generate text transcriptions as part of the server-side workflow
- Designed backend endpoints to handle audio uploads, transcription requests, and response delivery

SQL Relational Database Analytics

Madison, WI

SQL, PostgreSQL / MySQL, Relational Databases, Data Analysis

Jan 2025

- Used SQL to explore relational datasets and answer real-world business questions from relational datasets
- Wrote 20+ complex SQL queries using joins, aggregations, CTEs, and window functions to uncover trends and insights

RAG PDF Data Extractor

Franklin, WI

Python, LangChain, Vector Databases, PDF Processing, Retrieval-Augmented Generation (RAG), LLMs

Oct 2025

- Built a Retrieval-Augmented Generation (RAG) pipeline to extract structured information from unstructured 1-25 page PDF documents
- Implemented document chunking, embeddings, and vector-based retrieval to connect source data to LLM responses
- Designed and implemented a full-stack workflow combining document ingestion, semantic search, and AI-powered extraction that improved response relevance by 40-50% compared to unguided LLM querying