

Ranjith Kannan

📍 Glasgow, Scotland ✉ rkranjith03@gmail.com ☎ +44 7352 683529 📁 portfolio in Ranjith Kannan
🔗 [RanjithKannan03](#)

Experience

Software Developer Intern

Kultivate India Software

Coimbatore, India

Feb 2025 – Aug 2025

- Designed and built an end-to-end resume screening pipeline using semantic analysis, handling document ingestion, embedding, and ranked retrieval across candidate profiles
- Architected the chatbot system using LangGraph, defining agent state, tool routing, and conversation flow to enable multi-turn screening interactions
- Integrated AWS S3 for scalable resume storage and retrieval, managing bucket configuration and connecting document ingestion to the screening pipeline via FastAPI
- Tech Used: LangGraph, FastAPI, AWS, NextJS

Tech Team Lead

Student Union, PSG College of Technology

Coimbatore, India

Dec 2023 – May 2025

- Led a team of 9 developers (2 leads, 7 juniors) delivering technical operations for college events attended by 4,000+ participants, including registration, payment, and accommodation platforms
- Built and maintained Express.js backend services to handle participant registration, payments, and admin management
- Guided junior developers in debugging, code reviews, and implementing best practices in both frontend and backend modules

Education

University of Glasgow

MSc Computing Science

Sept 2025 – present

- **Coursework:** Machine Learning, Data Science, Internet Technology, Web Science, Big Data, Deep Learning

PSG College of Technology

BE Computer Science

Nov 2021 – May 2025

- **Coursework:** Front End Development, Back End Development, Machine Learning, Data Structures & Algorithms

Projects

Language Leap AI

[github](#) [🔗](#)

- Built a real-time cross-language voice translation pipeline for online multiplayer games, handling continuous audio capture, speech recognition, translation, and voice synthesis with minimal latency
- Fine-tuned OpenAI's Whisper model for improved transcription accuracy across accents and in-game audio conditions
- Designed the pipeline architecture to process and re-synthesise audio fast enough for live co-op gameplay without interrupting player experience

DJ-U

[github](#) [🔗](#)

- Built a collaborative music platform supporting synchronised playback across multiple concurrent users, ensuring consistent audio state across sessions in real time
- Implemented a real-time song voting system using WebSockets, handling simultaneous votes and live queue updates without page refresh
- Tools Used: NextJS, MongoDB

Technologies

Languages: Javascript/Typescript (ReactJS, NextJS, NodeJS), Python, Java, Dart, Go

AI/ML: LangGraph, CrewAI, HuggingFace, OpenAI Agents, PyTorch

Databases: MySQL, PostgreSQL, MongoDB, Firestore

Tools: Git, Docker, AWS, Postman