

# Jyothish Chandran C K

Kerala, India — +91 9074900488 — ckjyothishchandran@gmail.com

GitHub: [github.com/Jyothish846](https://github.com/Jyothish846) — LinkedIn: [linkedin.com/in/jyothish-chandranck](https://linkedin.com/in/jyothish-chandranck) — Portfolio: [jyothish-ck.vercel.app](https://jyothish-ck.vercel.app)

## Profile

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Full Stack Developer with hands-on experience building Django-based backend systems and React frontends, including AI-assisted applications using Retrieval-Augmented Generation (RAG), relational database design, and CI/CD-based deployments.

## Skills

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**Programming Languages:** Python, JavaScript, SQL

**Backend:** Django, Django REST Framework, RESTful APIs

**Frontend:** React, Tailwind CSS

**Databases:** PostgreSQL, MySQL

**Tools & Platforms:** Git, GitHub, Linux/CLI, CI/CD (Render, Vercel)

**AI-assisted Development:** RAG Pipelines, Pinecone, Gemini API, Neural TTS

## Experience

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### Advanced Full Stack Development

Jun 2025 – Feb 2026

Haris and Co Academy, Calicut, Kerala

- Built Django-based backend applications with RESTful APIs for full-stack web projects.
- Designed relational database schemas using PostgreSQL/MySQL, ensuring data integrity and efficient queries.
- Built and integrated React frontends with Django backends via REST APIs.
- Implemented authentication, authorization, input validation, and error handling across applications.
- Deployed applications using CI/CD platforms (Render, Vercel) and Git-based workflows.

## Projects

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### Narrato – PDF to Audiobook Converter

Python, Django, Gemini, ElevenLabs, Pinecone

- Built a Django backend converting multi-page PDFs (demo-limited) into structured AI-generated audiobooks.
- Implemented RAG with Pinecone using 1,000-character chunks and 100-character overlap for semantic retrieval.
- Batched embedding generation in groups of 50 to reduce API overhead and rate-limit issues.
- Designed a multi-stage audio pipeline with TTS generation, normalization, SFX mixing, and final concatenation.
- Exposed REST API endpoints for PDF upload, audiobook generation, and RAG-based question answering.

### Resonate – Social Media Platform

Python, Django, PostgreSQL

- Designed relational models for users, profiles, posts, likes, comments, follows, and private chat threads.
- Implemented authentication, authorization, and permission checks across core application features.
- Built social features including follow/unfollow, likes, comments, and user-specific activity tracking.
- Developed private one-to-one chat with thread management, message persistence, and real-time updates using Django Channels.
- Optimized feeds and views using select\_related and prefetch\_related to reduce database query overhead.

### Ad-Space Marketplace (Frontend)

React, Tailwind CSS

- Built a React-based marketplace with listing creation, editing, deletion, and reservation workflows.
- Implemented client-side search, filtering, and inline editing using React hooks and local component state.
- Designed responsive dashboard and marketplace views using Tailwind CSS with persistent browser storage.

## Education

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### Bachelor of Computer Applications (BCA)

University of Calicut, Kerala, India

2022 – 2025

### Diploma in Computer Application (DCA)

Bharat Sevak Samaj, National Development Agency

Jan 2023 – Jun 2023