TEJAS VINAYAKA RAO KANGOD

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EXPERIENCE

Software Engineer Intern *June 2026 – November 2026*

CMG Worldwide, Los Angeles, CA

- Led the development and delivery of Jarvis, an internal platform (React, Nest.js, PostgreSQL) to replace spreadsheet-based workflows and support ~$5M in transaction data
- Deployed an analytics pipeline by integrating Metabase on a self-hosted Google Cloud VM to give stakeholders real-time visibility into hundreds of charts and KPIs
- Automated validation and deployment to alpha and production environments on Google Cloud Platform through CI/CD pipelines, and streamlined data entry workflows to reduce manual input by 30%

Full-Stack Developer (Part-Time) *September 2025 – September 2026*

USC Dornsife, Los Angeles, CA

- Led the development of Pathways to Success web application (React, Fastify, PostgreSQL), scaling it to 400+ active users
- Delivered the MVP for Digital Pathways, building a Sanity-based CMS and media/file storage system to improve usability for students
- Managed deployment pipelines on Google Cloud Platform and integrated Postmark to automate transactional emails for password resets and verification codes

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Kotlin

Frontend: React, Redux, HTML, CSS

Backend & Databases: Nest.js, Express.js, RESTful API, GraphQL, PostgreSQL, MongoDB

Cloud & DevOps: Google Cloud Platform, Docker, Git, CI/CD

PROJECTS

Musify – Website – GitHub – Demo *November 2024 – Present*

Independent — React, Express, PostgreSQL, Firebase, Cloudinary

- Implemented Firebase authentication, enabling users to build personalized audio libraries and stream, search, and favourite royalty-free tracks ad-free
- Tracked listening behaviour to generate curated "recently played" and "most played" playlists, delivering a personalized experience that increased repeat engagement

Multimodal Video Segmentation – GitHub – Demo *January 2026 – May 2026*

Team member — Python

- Designed an end-to-end multimodal system that segments long-form video into core vs. non-core content (ads, intros, sponsorships, dead air) by fusing audio frequency analysis, visual frame structure, motion detection, and speech transcripts
- Developed a custom synchronized video player with an interactive timeline, color-coded segment map, and per-segment navigation (play, skip, fast-forward) so users can selectively consume or bypass non-core segments

Artsy World – Website – App – GitHub – Demo *March 2025 – May 2025*

Independent — React, Express, MongoDB, Kotlin

- Built a search-driven interface for discovering artists worldwide and browsing related artwork by category, connecting artists with global audiences
- Integrated JWT-based authentication for secure, low-friction access to favourites and personalized artist recommendations

EDUCATION

University of Southern California — M.S. in Computer Science *January 2025 – December 2026*

- GPA: 3.68 / 4.0
- Coursework: Analysis of Algorithms, Web Technologies, Database Systems, Foundations of Modern Data Management and Processing, Multimedia System Design, Networked Systems for Cloud Computing

RNS Institute of Technology — B.E. in Information Science and Engineering *December 2020 – June 2024*

- Graduated with Honors, GPA: 9.06 / 10.0
- Coursework: Operating Systems, NoSQL Database, Computer Networks and Security, Software Engineering, Application Development using Python