SHREE KOTTES J

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EDUCATION

Coimbatore Institute of Technology, Coimbatore, India — Oct, 2022 – Present
Master of Science in Software Systems — CGPA: **9.26/10** (upto 6th sem)

Sri Sowdeswari Vidyalaya Matriculation Higher Secondary School, CBE, India — Jun, 2020 – May, 2022
High School — *10th grade:* **87%**, *12th grade:* **92.67%**

EXPERIENCE

KLA Coporation — May, 2025 – Present
Software Engineer Intern — *Chennai, India*

- Led development of an **AI agent** with custom **MCP server** replacing legacy chatbot infrastructure, scaling from 4 basic functions to comprehensive autonomous system.
- **Accelerated developer productivity by 70%**, transforming **15-minutes-long** manual analysis into automated **30-seconds** intelligent summaries.
- Achieved **80%+** query resolution rate through iterative tool implementation, significantly **reducing** developer dependency on **manual information gathering**.
- Led infrastructure setup and optimization for model inference pipelines, successfully deploying solutions within constrained memory and compute limitations.

PROJECTS

R2UP 🔗 | *Vue JS, Tailwind CSS, AWS SDK* — 🔗 kottesh/r2up

- An util to interact with the Cloudflare R2 Object Storage.
- Implemented functions for uploading files, generating links, and deleting objects.
- Stores the credentials in the local storage for persistence.

REZ 🔗 | *Python, Flask, Marshmallow, JWT, Redis* — 🔗 kottesh/rez

- Developed a REST API wrapper for the CIT student portal.
- Implemented secure authentication using JSON Web Tokens (JWT), replacing vulnerable cookie-based authentication.
- Students can now try out or consume this api in their apps to download the halltickets and semester exam results.

CHIPS | *C++, SDL 2, CMake* — 🔗 kottesh/chips

- A CHIP-8 interpreter in C++ that is fully compliant with the original specification.
- Supports all the quirks of the original CHIP-8 platform to enable running older ROMs.
- Uses SDL2 for rendering, simulating the 64x32 pixel monochrome display of the original CHIP-8.

RIFF 🔗 | *React.js, Tailwind CSS, Express, Prisma ORM, MongoDB* — 🔗 kottesh/riff

- A Music Streaming App that supports smooth audio streaming with features to browse, search, and play music.
- Implemented a fully compatible player with the queuing functionality.
- Created a custom API backend 🔗 for serving the content to the site.
- Utilizes *Firebase* bucket storage for audio files and *Cloudinary* for image assets.

TECHNICAL SKILLS

- **Programming Languages:** C/C++, Python, JavaScript
- **Frameworks:** React JS, Vue JS, Tailwind CSS, Flask, Zola, OpenAI Agents SDK, Langchain
- **Databases:** SQLite, MongoDB, Redis, Oracle DB, Chroma DB
- **Developer Tools:** GNU/Linux(Arch, Ubuntu), Git, Docker, Vim

AREAS OF INTEREST

- Data Structures and Algorithms
- Object Oriented Programming
- Operating Systems
- DBMS

ACHIEVEMENTS

- Won 1st place with a cash prize of **12K INR** in the *Triathlon* event at **AXIOS 2K24** hosted by PSG Tech, CBE. 🔗
- Secured 2nd place in the *Code Fusion* competition at **KRISHNECS 2K24** hosted by SKCET, CBE. 🔗
- Achieved 1st place in the *Bid Battle*, a technical quiz based on bidding, winning a cash prize of **2K INR** at **Melinia** 2024 hosted by CIT, CBE. 🔗