SHREE KOTTES J

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Summary

An ambitious Software Systems individual seeking an internship, with a strong interest in solving complex technical problems and optimizing systems. Eager to apply theoretical knowledge in a practical, fast-paced environment.

Education

Coimbatore Institute of Technology, Coimbatore, India   Oct, 2022 – Present
Master of Science in Software Systems   CGPA: **9.24/10** (upto 5th sem)

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

Projects

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.

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.

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.

PAYIT- *Java, Java Swing, OracleDB*   🔗 kottesh/payit
- Developed a comprehensive payment system model simulation supporting UPI, NetBanking, and Credit/Debit transactions.
- Utilizes Java Swing to create a seamless user interface, simulating real-world payment scenarios.
- Transactions and user data are managed using Oracle DB.

Technical Skills

- **Programming Languages:** C/C++, Python, JavaScript.
- **Frameworks:** React JS, Tailwind CSS, Flask, Zola.
- **Databases:** SQLite, MongoDB, Redis, Oracle 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. 🔗