KRISHNATEJASWI SHENTHAR

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EXPERIENCE

OnFinance AI   Bangalore,IN
AI and Fullstack Engineer   Jun 2025 - Present

- Built and deployed **ComplianceOS**, architecting database schemas, backend, and cloud infrastructure, delivering **1250+ hours/year** savings on **BFSI** compliance automation.
- Engineered **Agentic workflows** using **LangGraph** and **LiteLLM** for efficient handling of **100M+ tokens/month** of regulatory data.
- Designed and implemented a proprietary **Retrieval-Augmented Generation (RAG)** pipeline to contextualize and analyze complex financial regulations.
- Led technical support for the executive team, crafting presentations and demos to secure **$4.2M** Pre-Series A funding from **PeakXV Partners**, showcasing **ComplianceOS**'s impact and scalability.

RingCentral   Bangalore,IN
SDE Intern   Jan 2025 - Jun 2025

- Led the modernization of the Porting Script Generator interface by porting the entire feature from **Angular 1.x** to **React** with **Redux** for state management.
- Implemented end-to-end testing using **React Testing Library (RTL)**, resulting in a **95%** coverage increase for the modernized component.
- Optimized application performance by **3x**, successfully reducing the overall application load time from **2 seconds to less than 0.5 seconds**.
- Integrated feature with global **CI/CD** pipelines to ensure seamless deployment and adherence to new performance metrics.

SKILLS

Programming languages:	Python, C++, Embedded C, Assembly, SQL, JavaScript
Python Frameworks:	FastAPI, LiteLLM, Langchain, LangGraph, Pydantic, Pytorch, Langsmith
JavaScript Frameworks:	ReactJS, NextJS
Cloud:	AWS
Tech and Tools:	MongoDB, PostgreSQL, MySQL, Qdrant, Docker, Kubernetes (EKS), Git, Github, Linear, Jira, JWT, OAuth

EDUCATION & PUBLICATIONS

RV College of Engineering   Bangalore,IN
BE Computer Science and Engineering *GPA: 9.28*   Dec 2021 - Jul 2025

Certifications (NPTEL Gold)

• **Introduction to Soft Computing** (Top 5%ile): Covered Fuzzy Logic, Optimisation, Genetic Algorithms, and Artificial Neural Networks (Mar 2024).

Data science for Engineers (Top 1%ile): Focused on R Programming, Statistics, and Linear Algebra (Oct 2023).

Publications

• **Evaluation of Filtering and Contrast in X-Ray and CT Scan Lung Classification** (IJEECS): Quantitative study on Effect of Noise in Medical image analysis using Deep Learning.
[http://doi.org/10.11591/ijeecs.v33.i3.pp1715-1725] (Jan 2024)

Handwritten Tripsheet Analysis (IEEE Xplore Digital): Combination of EasyOCR and Regular expressions leading to a 30% increase in matching accuracy. [https://ieeexplore.ieee.org/document/10170030] (Jul 2023)

PROJECTS

Cyclomatic Complexity Clang Plugin - *C++, Clang*   github.com/KTS-o7/cyclomatic-complexity-clang-plugin
Developed a **Clang plugin** to analyze and calculate cyclomatic complexity metrics for C/C++ codebases. Implemented **Abstract Syntax Tree (AST) traversal** to identify decision points in code. Generated comprehensive reports highlighting complex functions requiring refactoring. Integrated with CI/CD pipelines to enforce complexity thresholds during code reviews. **Awarded Best Project from HPE LLVM team**.

RV Board - *Embedded C, Assembly, Microcontroller Design*   https://github.com/KTS-o7/RV_Board.git
ARM7 based IoT prototyping board with **15+ functionalities**. Developed a **comprehensive testing program** for an IoT Prototyping Board. Developed a set of **driver codes** for the functionalities offered on the Board. Allowed the college to use our drivers to teach **300+** students **every year.**

BetterBingImageDownloader - *Python, Pypi*   https://pypi.org/project/better-bing-image-downloader/
A **Python Library** to scrape images from web without APIs. Built a highly-efficient scraper library which can be used in projects to download images from Bing. Achieved **18k+ downloads** and **40+ Stars**, demonstrating utility and maintainability.

Personal Website / Portfolio - *NextJS, TailwindCSS, Vercel*   https://krishnatejaswi-s.vercel.app
Designed and implemented a responsive, fast-loading personal portfolio using **NextJS** for performance and **TailwindCSS** for utility-first styling. Deployed and managed continuous delivery via **Vercel**.