Milan Christy

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PROFESSIONAL SUMMARY

Backend & AI Engineering Intern specializing in scalable REST APIs and Retrieval-Augmented Generation (RAG) systems. Experienced in FastAPI, vector databases, Nextjs and cloud-deployed ML applications. Strong focus on modular backend architecture, performance optimization, AI applications and CI/CD-driven development.

KEY COMPETENCIES

- Python
- Java
- Javascript
- Spring/Spring-Boot
- Flask
- FastAPI
- Django
- REST APIs

- GraphQL APIs
- React
- HTML5
- CSS3
- MYSQL
- Mongodb
- PostgresSql
- AWS(EC2,S3)

- Github Actions
- Docker
- Postman
- STS (Spring tool suit)
- Tensorflow
- Scikit-Learn
- Excel
- Tableau

PROFESSIONAL EXPERIENCE

BootLabs, Bangalore
Intern   **Dec 2025 - Ongoing**

- Designed and implemented RESTful CRUD APIs using FastAPI with modular routing and structured validation.
- Integrated relational databases using ORM-based models for scalable data handling.
- Developed Retrieval-Augmented Generation (RAG) pipelines with document chunking, embedding generation, and similarity search.
- Optimized response latency and retrieval accuracy through vector indexing strategies.
- Designed and implemented secure Single Sign-On (SSO) authentication integrating FastAPI, PostgreSQL and Next.js

PROJECTS

Red Wine Quality Prediction (End-to-End ML Application)
- Built and deployed production-ready ML API using Flask and AWS EC2.
- Implemented token-based authentication and automated retraining via GitHub Actions.

Code Explainer (AI Full-Stack Application)
- Developed AI-powered code explanation tool with React frontend and REST backend.
- Designed asynchronous MongoDB storage and deployed frontend on Vercel.

Movie Recommender System
- Built recommendation engine with real-time REST API integration.
- Optimized backend performance using caching techniques.

EDUCATION

Bachelor of Technology (B.Tech) in Artificial Intelligence & Machine Learning

Reva University, Bangalore | 2022 – 2026 (Expected)

ACHIEVEMENTS

- Contributed to open-source project through documentation localization and structured pull request workflow.
- Developed multilingual AI solution during Bhashini Hackathon focused on language accessibility.