Atharva Shirke

Software Engineer, R&D

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SUMMARY

Results oriented Software Engineer specializing in Python backend development, server management, and Extended Reality (XR). Proficient in leveraging Data Structures, Algorithms, and CI/CD pipelines to deliver scalable solutions. Adept at driving innovation and rapid adoption of emerging technologies in Agile environments.

EXPERIENCE

Software Engineer   Sep '23 — Present
Persistent Systems Limited   Pune, India

- Implemented object detection solutions using YOLO, optimizing detection accuracy by 17% and reducing processing time by 12% for real-time business use cases.
- Collaborated on building a customGPT with LangChain and LlamaIndex for Retrieval Augmented
- Generation(RAG).
- Developed embeddings for Retrieval-Augmented Generation (RAG) models using OpenAI and OLlama, storing and managing them in vector databases like Pinecone, improving retrieval accuracy by 23% and reducing query response times by 13%.
- Built React applications for Mixed Reality(MR)and Augmented Reality(AR) Proof of Concepts (POCs).
- Designed backend solutions via. FastAPI and MongoDB.

Software Engineer Intern   Jun '23 — Sep '23
Persistent Systems Limited   Pune, India (Remote)

- Employed as a Java Salesforce Intern.
- Completed Problem Statements given on Java, HTML5, CSS3, JavaScript.
- Understood usage and implementation of Salesforce.
- Experienced in Python Development.

Machine Learning Intern   Jul '21 — Sep '21
Knowledge Solutions India   Pune, India

- Worked as a Machine Learning Intern in the organization.Learned
- how machine learning algorithm behaves.
- Gained knowledge about neural networks.
- Designed and trained a Heart Disease Recognition model, improving prediction accuracy by 68% and facilitating early detection of heart conditions during model training and evaluation phases.

PROJECTS

Custom RAG Link

- Created a custom RAG system tailored to a specific business need. Explored data storage and retrieval processes to optimize functionality.
- Tech Stack: Python, FastAPI, Langchain

Freelancers Link

- A Django Web App connecting freelancers with job opportunities, simplifying the process of finding work.
- Tech Stack: Django, Sqlite3, OpenAI

SKILLS

Development   Python, Java, JavaScript, React
Version Control   Git, Version Control
Database Management   SQLite3, Vector DB, MongoDB, MySQL
Web Technologies   Web Development, Fast API, Django
Cloud Technologies   Linux, AWS

EDUCATION

Bachelor's Degree in Computer Science, N B Navale Sinhgad College of Engineering (GPA: 9.7)   Solapur

CERTIFICATIONS

Microsoft Azure AI-900   May '22

PUBLICATIONS

JOB SEARCH IMPROVING TECHNIQUE USING RECOMMENDATION SYSTEM AND OPEN AI.FOR FREELANCERS
Lakhsmi Book Publications https://oldror.lbp.world/ArticleDetails.aspx?id=14511