

Jayasurya Jayadevan

College Park, MD

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Professional Summary

Data-focused developer with over 2 years of experience in designing scalable data pipelines and backend APIs. Currently pursuing an M.S. in Data Science, with solid skills in Python and machine learning frameworks like TensorFlow and PyTorch. Poised to contribute technical expertise and a keen interest in generative AI to support innovative AI feature development and integration.

Education

Univ. of Maryland, College Park

May 2024 - May 2026

M.S., Data Science

• **Achievements:** exp.

Anna University Chennai

May 2022

B.Engg., Computer Science

Experience

Tata Consultancy Services

Jan 2023 - Jul 2024

ETL Developer

Chennai, India

- Architected ETL workflows to ingest, transform, and load over 100M records/month into the enterprise data warehouse, demonstrating strong data integration capabilities relevant to backend API services supporting ML models.
- Optimized mappings and workflows, improving data quality and reducing processing time by 20%, showcasing analytical skills applicable to monitoring and troubleshooting data pipelines.
- Partnered with stakeholders to translate business requirements into scalable, governance-compliant ETL solutions, reflecting the cross-functional collaboration needed to integrate AI into product features.
- Authored end-to-end process documentation and led knowledge-transfer sessions, highlighting effective communication in technical projects.

Tata Consultancy Services

Jul 2022 - Jan 2023

Backend Developer

Chennai, India

- Developed RESTful services using Java/Spring Boot, enhancing throughput and reliability, with a focus on robust backend frameworks that can complement AI/ML integrations.
- Designed database schemas and optimized SQL queries, improving query performance by 15%, aligning with best practices in managing and retrieving data for AI applications.
- Integrated third-party APIs and implemented robust error-handling mechanisms, illustrating an ability to support and maintain services that may interact with ML models.
- Contributed to Agile sprint planning, estimation, and peer code reviews, ensuring collaborative project development similar to cross-functional teamwork in AI feature implementations.

Projects

Malicious Website Detection (ML)

- Built a real-time detection system (Random Forest, SVM) to flag malicious websites.
- Developed a browser extension for on-the-fly URL scanning; improved detection accuracy by 30%.
- Implemented a user feedback loop for false-positive reporting, continuously refining the model.

Technical Skills

- **Languages:** Java, JavaScript (ES6+), Python, SQL, HTML5, CSS3
- **Data Integration:** Informatica PowerCenter, Data Warehousing
- **Frameworks & Dev:** Spring Boot, RESTful API Design, Docker, Backend Frameworks
- **ML & Data Science:** scikit-learn, TensorFlow, PyTorch, Pandas, NumPy, Matplotlib, Seaborn, Jupyter, Machine Learning, Generative AI, Deep Learning, Large Language Models
- **Cloud & Tools:** AWS (Developer Associate, Cloud Practitioner), Git, Linux, Shell Scripting
- **Methodologies:** Agile, Scrum, Performance Tuning, Documentation, Research, Prototyping

Certifications

- AWS Certified Developer - Associate (DVA)
- AWS Certified Cloud Practitioner (CCP)