Alagu Suriya

Product Engineer / Software Developer / Data Engineer

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SUMMARY

B.E. Computer Science and Engineering graduate with hands-on experience as a stipend-based Product Engineer Intern at Dataswitch Inc. Skilled in Java, SQL, PySpark, ETL, and debugging for workflow optimization. Experienced in data transformation, validation, and building scalable tools. Strong foundation in problem-solving, team collaboration, and full stack development.

TECHNICAL SKILLS

Languages: Java, JavaScript, SQL, Python

Frameworks/Libraries: React.js, PySpark

Tools: Talend Studio, Eclipse, Git, GitHub, HTML, CSS, Figma, MongoDB, NoSQL, XML, JSON, ETL, DAG workflow

Core Competencies: Data Validation, Data Transformation, Debugging, Tool Development, Problem-Solving, Team Collaboration, Workflow Optimization

EXPERIENCE

Product Engineer Intern — Dataswitch Inc., Chennai — Jun 2025 – Sep 2025

- Developed and optimized enterprise-scale data modernization tools using Java and Talend for ETL workflows, improving efficiency of DAG job structures.
- Resolved multiple RFCs (Requests for Change) by diagnosing critical production issues, enhancing tool stability and reliability.
- Enhanced the Expression Translator Module, implementing algorithmic fixes and ensuring accurate XML-to-JSON data transformation outputs.
- Redesigned legacy Talend Reader logic to convert XML files into structured JSON for downstream integration and data validation.
- Collaborated with team members to debug, test, and optimize data pipelines, strengthening problem-solving and tool engineering skills.
- Successfully completed a **stipend-based internship** contributing to the development of enterprise-scale data modernization tools.

PROJECTS

Startup Investor Platform — Freelance Project — Sep 2024 – Nov 2024

- Designed and implemented a full stack web platform connecting startups and investors, improving user engagement by 20 percent.
- Developed front-end with HTML, CSS, JavaScript, and React.js, integrating RESTful APIs for seamless data exchange.
- Implemented client requirements into system architecture and optimized workflows for performance and usability.

EDUCATION

B.E. in Computer Science and Engineering — **Anna University SSMIET, Dindigul** — Jul 2022 – May 2025

Diploma in Mechanical Engineering —**Govt. Polytechnic College, Coimbatore** — Jul 2019 – May 2022

CERTIFICATIONS

Introduction to Artificial Intelligence – IBM

Mastering the Art of Prompting – IBM

Master of Frontend (8-week course) – GeeksforGeeks

Prompt Engineering – Guvi