ASWINKUMAR SARANGAPANY

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SUMMARY

Software Developer with 2 years of experience, skilled in building scalable backend solutions using Java, Spring Boot, Node.js, and Python with strong expertise in DSA, and modern web technologies like React.

EDUCATION

B.Tech, Electrical and Instrumentation Engineering   Graduating May 2023

Puducherry Technological University   7.66 GPA

Academic Project – Pick and Place Robotic Arm using Arduino and Python

Relevant coursework: Data Structures and Algorithms, Object-Oriented Programming, Computer Networks, Control Systems, Microprocessors, Programmable Logic, Problem-Solving Skills

HIGHLIGHTS

NPTEL Certifications: Data Structures and Algorithms, Programming in Java, Programming in Python
LeetCode: Solved more than 250 problems and received recognition and rewards from LeetCode
Automation & Optimization: Automated Reference Structuring, Accessibility Workflow Optimization

TECHNICAL SKILLS

Programming Languages: C#,Java, Python, C/C++, JavaScript
Core Concepts: Data Structures and Algorithms
Web Technologies & Database: HTML5, CSS, Bootstrap,MySQL,MongoDB
Frameworks & Libraries: :   Django , Spring Boot, React, Node.js
Cloud & DevOps :   AWS
Version Control: Git / GitHub

PROFESSIONAL EXPERIENCE

Integra Software Services, Puducherry: Software Developer   July 2024 – Present

- Automated PDF accessibility, cutting manual work by 60% and user issues by 40%. Built workflow automation tools for e-publishing, increasing efficiency and reducing effort.

Top Skilled IT Solution & Academy, Puducherry: Trainer & Developer   Dec 2023 – June 2024

- Strengthened software and web application security, achieving zero critical incidents during deployment.
- Trained more than 100 students in DSA, Java , Python.

PROJECTS

Krythm - Bluetooth-Based Desktop Application   Tech Stack – Electron.js , React.js , Python(Bleak) , Node.js

Desktop application interact with BLE-enabled microcontrollers for real-time data communication and control.

- Architected a scalable system where the backend utilized Python for complex logic while the frontend employed React for seamless user interaction; this setup improved response times by 30% .

Accessbility Automation   Tech Stack - JAVA

Designed and devloped a automation tool enhance the PDF Accessibility for visually impaired users.

- Using **Data structure and Algorithms** concepts(Back-tracking, Dynamic Programming), Achieved 95% Automation, drastically reducing manual intervention and cutting down processing time by over 70%

Reference Structuring Automation   Modules – AnyStyle, Grobid, ChatGPT 5.0

Achieved 95% accuracy in automating reference structuring by integrating advanced NLP and parsing tools, significantly reducing manual effort.

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