JAYA VEL RAJAN

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EXPERIENCE

Programmer Analyst
Cognizant Technology Solutions

Feb 2023 – Present

Chennai, TN

- Developed and maintained **Spring Boot application** to validate mapped clinical data, enabling the DWA team to detect 95% of discrepancies with **20+ RESTful APIs** and **controllers**.
- Created and monitored **20+ REST APIs**, integrated with engineering data systems, improving team productivity and enabling faster validation workflows.
- Designed and implemented ETL pipelines using **Informatica PowerCenter** for clinical & healthcare datasets.
- Worked on **SDTM mapping** of raw clinical data for regulatory compliance using **CDISC** standards.
- Handled data ingestion and extraction to/from **AWS S3 buckets** for ETL workflows.
- Built and automated data pipelines using the **Saama Analytics Platform** for data transformation and visualization.
- Conducted and documented **200+ ETL tests** in **MySQL** & **PostgreSQL**, ensuring data integrity and compliance.

Software Engineer Intern
Cognizant Technology Solutions

Mar 2022 – Aug 2022

Chennai, TN

- Completed comprehensive training in data integration using **ETL tools: Informatica, Datastage and Talend**, with focus on optimizing transformation workflows.
- Gained proficiency in HTML, CSS and JavaScript for creating responsive and interactive interfaces.
- Revamped a **healthcare data warehouse**, improving data accuracy and accessibility by 30%, enabling better business decisions.
- Developed a "Welcome Letter" automation module, reducing manual effort by 25% and increasing data reliability.

Research and Development Intern
Vaayusastra Aerospace - an IIT Madras Startup

Apr 2021 – Feb 2022

Chennai, TN

- Published a research paper on a **telemetry device** for army soldiers at the Siachen Glacier for ***DRDO India***.
- Developed a flight **data visualization program** using Python and MATLAB, improving data analysis.
- Programmed the **Arduino board** to sense and transmit **real-time health data**, enhancing soldier safety.

PROJECTS

Expense Tracker REST API with Spring Boot [↗] | *Java, Spring Boot, MySQL*

- Built a **REST API** for expense tracking with secure authentication and flexible data filtering, ensuring smooth **financial data management**.

Cloud-Native Netflix Clone Deployment with DevSecOps Automation [↗] | *AWS, Docker*

- Deployed a **Netflix** clone on **AWS**, set up CI/CD pipelines with Jenkins, and monitored performance with Prometheus and Grafana.

AutoEBSOptimizer: Real-time Compliance for AWS EBS Volumes [↗] | *AWS, EBS, Lambda*

- Created an **AWS Lambda** solution to automate EBS volume conversions from **gp2 to gp3**, using CloudWatch Events for efficiency and boto3 for modifications, with CloudWatch Logs for monitoring.

EDUCATION

Prince SVPE College, Anna University
*Bachelor of Engineering in Computer Science (CGPA **8.15**)*

Chennai, TN

2018 – 2022

TECHNICAL SKILLS & CERTIFICATIONS

Languages : Java (Core Java, Java 8+), Python, SQL, HTML /CSS, JavaScript
Frameworks : Spring Boot, Spring Data JPA, Hibernate, Spring Security, OAuth2
Cloud Services : AWS(S3, EC2, Lambda, CloudWatch, Glue), Docker
Databases : MySQL, PostgreSQL (Relational), MongoDB (NoSQL)
Certifications : AWS Certified Solutions Architect, AWS Certified Cloud Practitioner

LEADERSHIP EXPERIENCE

Led a team of six to win **Smart India Hackathon 2020 - Hardware Edition** [↗] and **Rs.1,00,000** grant by prototyping a millimeter-wave passenger scanner for **Indian Railways**. *View project* [↗]