

PRABHU PRASAD PENTHOI

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SOFTWARE DEVELOPER | CLOUD DATA INTEGRATION | INFORMATICA

Innovative and purposeful Software Developer specializing in building scalable cloud integration solutions, automation, frameworks, and API-driven platforms. Skilled in developing cloud orchestration tools, and full-stack applications across multi-cloud environments.

PROFESSIONAL EXPERIENCE

Software Developer – Product Engineering (Cloud Data Integration)

Informatica, Bengaluru, Karnataka | 2024 – Present

- Designed and implemented cloud-native, event-driven architectures to enhance deployment automation and integration capabilities across AWS and hybrid environments.
- Developed full-stack features for the Asset Management Platform, optimizing asset import/export efficiency and reducing deployment time by 40%.
- Led the development of a SuccessFactors ODATA Connector, implementing OAuth2.0 authorization, CRUD operations, and dynamic schema discovery for HR data, which automated metadata management and bulk asset operations via Python and shell scripts, reducing manual work by 60%.

Software Developer Intern – NLP & Translation Systems

Samsung R&D Institute, Bengaluru, Karnataka | 2023 – 2024

- Designed an NLP-based pipeline for Odia to Bengali conversion using a custom architecture by integrating custom Acoustic Models (AMs), optimized Language Models (LMs), and a Decoding Strategy for robust multilingual processing.
- Engineered real-time inference optimization techniques to enhance speech recognition accuracy and context preservation under high-throughput conditions which resulted in a low-latency system that achieved a \$35\%\$ boost in User Engagement across key regional markets.
- Collaborated with core research scientists to profile and optimize model quantization and data preprocessing bottlenecks within the multilingual STT framework, significantly reducing Average Latency and improving the overall inference efficiency of the production system.

PROJECTS

VCS Pipeline Migration ([PRABHU-OFFICIAL-II/VCSPipelineMigration](#))

- Developed a robust Pipelining product to automatically transfer CI/CD configurations and associated metadata between heterogeneous Git-based version control and CI/CD systems.
- Architected the product engine which uses parallel concurrent processing mechanism including robust API-level error handling and detailed logging, enabling environment-aware transfers (Dev/QA/Prod) reducing migration effort by 50%.
- Technologies:** Java, REST APIs, JSON Parsing, Git, Shell Scripting, CI/CD.

TLS Fuel Management ([PRABHU-OFFICIAL-II/TLSFuelEntry](#))

- Developed a **Fuel Entry Management System** used by large-scale corporations under a Dubai INC Limited company for secure and compliant fuel usage tracking.
- Designed a **responsive React.js frontend** and **Node.js/Express backend APIs** integrated with **MongoDB and AWS Cloud (EC2/S3/RDS)** to provide scalable, real-time data capture and validation.
- Implemented **controlled access workflows, audit logging, and role-based data visibility** to ensure data integrity and operational transparency.
- Technologies:** React.js, Node.js, Express.js, MongoDB, AWS (EC2/S3/RDS).

EDUCATION

Institute of Technical Education & Research (ITER), Bhubaneswar, Odisha

Bachelor of Technology – Computer Science & Engineering | 2020 - 2024 | **CGPA: 9.14 / 10**

SKILLS - Java, Python, JavaScript, Data Structures, React.js, Docker, Git, REST APIs. Azure DevOPS, Bit Bucket

CONCEPTS - Agile methodologies, Performance tuning, API integration

PLATFORMS - Oracle, Amazon Redshift & S3, AZURE, Google (Cloud Storage & Big Query), Snowflake, PostgreSQL etc.