SUJARITHA VAMPU

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Professional Summary

Results-driven **Full-Stack Developer** with 2+ years of experience in backend development, API design, database management, and cloud deployments. Proficient in **Python, Java, Node.js, React.js, SQL,** and **MongoDB**, with expertise in building scalable **web applications, automating ETL pipelines,** and integrating **cloud solutions (AWS, DevOps, CI/CD)**. Strong background in **data migration**, system optimization, and multi-tier architecture configurations.

Education

Indiana University - Purdue University Indianapolis	Indianapolis, IN
Master of Science - Computer & Information Science	Jan 2023 – Dec 2024
CVR College of Engineering	India
Bachelor of Technology - Electronics & Communication Engineering	Aug 2016 – Aug 2020

Experience

Application Development Analyst — Jun 2022 – Jan 2023
Accenture — Hyderabad, India

- Designed backend automation scripts using **Python** and **Java,** optimizing API-driven data transfer between legacy and target systems, resulting in a 40% reduction in migration time and 99% data accuracy.
- Developed and deployed **REST APIs** to automate data extraction, transformation, and loading (ETL), reducing manual processing time by 40% through **Python, Node.js, and Express.js.**
- Integrated cloud-based storage **AWS S3** and **Lambda** with APIs, ensuring high availability and reducing downtime by 30% for data retrieval processes.
- Configured **multi-tier** system architectures (4-tier, 2-tier, web-tier) to support seamless **frontend-backend** communication, reducing latency by 25%.
- Built **React.js** dashboard to track migration status, improving real-time monitoring & reducing error resolution time by 50%.

Application Development Associate — Sep 2020 – May 2022
Accenture — Hyderabad, India

- Automated **ETL pipelines** and backend data processing using Python and Java, reducing data transformation time by 90%.
- Developed full-stack web applications with **React.js** and **Node.js**, improving team productivity by 30% through better data accessibility.
- Designed scalable microservices & database schemas using **PostgreSQL, MongoDB, ITK** for data validation, improving processing efficiency & reducing query execution time by 50%.
- Built DevOps pipelines with **CI/CD**, enabling zero-downtime deployments for Teamcenter & AWC upgrades.

Projects

Expense Tracker App | React.js, Node.js, MongoDB | Link

- Built a full-stack Expense Tracker using **React.js, Node.js, and MongoDB.**
- Deployed the frontend and backend with **MongoDB Atlas** integration, ensuring real-time tracking and 99.9% uptime.

Library Management System | Spring Boot, React.js, MySQL

- Developed a book tracking system with **Spring** Security, JWT authentication, and automated email reminders for due dates.
- Optimized database queries by 40% and implemented a responsive React.js UI for seamless user experience.

Named Entity Recognition | Python, Jupyter Notebook, TensorFlow, Keras | Link

- Built an NER model using **embedding layers, BiLSTM**, and **Time-Distributed layers**, achieving 98.4% accuracy.
- Addressed overfitting and generalization challenges, enhancing model robustness for NLP applications.

Employee Attendance System with Face Recognition | Python, TensorFlow, Flask, OpenCV

- Created an automated attendance system using TensorFlow-based facial recognition for identity verification.
- Integrated with **Flask API** and **PostgreSQL**, reducing attendance fraud by 95%.

Technical Skills

Programming: Python, Java, C, HTML/CSS, JSON, Shell Scripting, ITK Scripting, JavaScript, React.js, Node.js, Spring Boot, Flask.
Databases: SQL (MySQL, PostgreSQL.)
Cloud & Bid Data: AWS (S3, Lambda, RDS, EC2), CI/CD, Data Pipelines, ETL Automation.
Data Analytics & Reporting: Power BI, Tableau, Linux, Unix, Engineering Documentation.
Developer Tools: SVN, Git, VS Code, Eclipse, PyCharm, Jupyter Notebook, Jira, MongoDB, Google Sheets, Microsoft Excel (Pivot Tables, VLOOKUP, Data Validation, Conditional Formatting), Teamcenter, Active Workspace, Solidworks, Creo.