MAHESH NARPAT CHAND

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SKILLS

Programming Languages – Python, Java, JavaScript, HTML, CSS, Android, Scala, Dart, C++, Linux
Frameworks & APIs – NextJS, React, Redux, Flutter, Spring Boot, Hibernate, RESTful, Jest, PyTest, SpaCy, PyMuPDF
Database & Cloud – MongoDB, MySQL, SQLite, AWS (EC2, Lambda, S3), Azure, GCP
Tools - Postman, Git, Airflow, Jenkins, Docker, Kubernetes, DataStage, SAS, Rally, Jira, ServiceNow, Figma

EXPERIENCE

DATA ENGINEER INTERN | UNITEDHEALTH GROUP, MINNENTONKA, MN — JUN. 2022 – SEPT. 2022

- Customized and extended an open-source data-validator in Scala, enhancing validation efficiency.
- Integrated Parquet file processing into the framework, expanding compatibility with diverse data formats.
- Implemented features to improve anomaly detection, ensuring comprehensive data quality assessments.
- Contributed to reducing errors by 30%, adapting to various pipelines, and mitigating downstream impacts.

ASSOCIATE SOFTWARE ENGINEER | OPTUM, HYDERABAD, INDIA — AUG. 2020 – AUG. 2021

- Orchestrated cloud migration, enhancing ETL workflow efficiency by 50% using Linux and Python automation.
- Performed quarterly maintenance and monitoring of large-scale data ingestion runs, utilizing Airflow, DataStage, and SAS, to ensure data quality and accuracy throughout ingestion runs.
- Developed a containerized microservice for IT Service Management, improving ticket and SLA management.
- Contributed to the SDLC process, adhering to Agile principles, and performed comprehensive code reviews.

PROJECTS

LEGALAID SCHEDULER – CASE MANAEMENT SYSTEM — SINCE JANUARY 2023

- Developing a comprehensive system, encompassing PDF text extraction and processing, document automation, calendaring, and task management, and MS Graph API integration using NextJS and Flask.
- Utilized Amazon's API Gateway, S3 and EC2 services for backend tasks and Git for code management.
- Implementing AI-driven enhancements for streamlined legal workflows, by incorporating OpenAI's GPT model, reducing manual entry by approximately 15 hours/week.
- Conducted rigorous unit testing, debugging and static code analysis using Pytest, Jest and Pylint.

DRIVEWAVE – GESTURE CONTROLLED ROBOT CAR — DECEMBER 2021

- Collaborated on seamless integration of a hand gesture recognition ML model with Arduino-based robot car.
- Engaged in hardware config. and software interfacing, ensuring precise execution of gesture commands.
- Developed expertise in data pre-processing and modeling techniques using Tensorflow and Pytorch for accurate insights and predictions.

PEDALEZE – FITNESS CYCLING APP — JULY 2019

- Developed a user-friendly fitness cycling android app, enabling users to effortlessly track cycle routes and heart rate through BLE-based integration with wrist/fitness bands.
- Optimized database operations using Spring Hibernate, enhancing the performance and responsiveness.

EDUCATION

MASTER OF SCIENCE IN COMPUTER SCIENCE | SOFTWARE ENGINEERING — MARCH 2024
OREGON STATE UNIVERSITY, CORVALLIS, OR — **GPA 3.94/4.0**

- **Software Innovation Lab** - Practiced Agile and Scrum methodologies, taking turns as Scrum Master, ensuring efficient project management.
- **Coursework** - Enrolled in Algorithms, Software Engineering Methods, Human Computer Interaction, Database Management Systems, Deep Learning, Information Retrieval, Intro to Robotics and Scalable Querying.
- **Teaching Assistant** - Cloud Application Development(GCP), Mobile Software Development(Flutter & Kotlin).

BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE — MAY 2020
SRM INSTITUTE OF SCIENCE & TECHNOLOGY, CHENNAI, TN (INDIA) — **GPA 3.56/4.0**