

# MAHESH NARPAT CHAND

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## SKILLS

**Programming Languages** – Python, Java, JavaScript, HTML, CSS, Android, Scala, Dart, C++, Linux

**Frameworks & APIs** – NextJS, React, Flask, Flutter, Spring Boot, Hibernate, OAuth, MS Graph, REST, Jest, PyTest

**Database & Cloud** – MongoDB, MySQL, SQLite, AWS (EC2, Lambda, S3), Azure

**Tools** - Git, Airflow, Jenkins, Docker, Kubernetes, DataStage, SAS, Rally, Jira, Figma

## EXPERIENCE

**DATA ENGINEER INTERN | UNITEDHEALTH GROUP**, MINNENTONKA, MN

JUN. 2022 – SEPT. 2022

- Customized and extended an open-source data-validator, enhancing validation efficiency.
- Implemented a data validation framework in Scala, reducing errors by 30% and ensuring adaptability to various pipelines and mitigation of downstream impacts.

**ASSOCIATE SOFTWARE ENGINEER | OPTUM**, HYDERABAD, INDIA

AUG. 2020 – AUG. 2021

- Orchestrated cloud migration, enhancing ETL efficiency by 50% through Linux and Python automation.
- Carried out stress testing to identify the system capacity and implement checks in place to avoid overload.
- Documented the entire process, providing comprehensive knowledge transfer for team members.
- Developed a full-stack ServiceNow microservice, improving ticket tracking and SLA management.
- Performed code reviews, and contributed to the SDLC process, adhering to Agile principles.

**ANDROID DEVELOPER (PART-TIME) | SMAZEE**, CHENNAI, INDIA

JAN. 2019 – JUL 2019

- Created Android prototype for e-cycle client, highlighting expertise in app architecture and UX design.
- Collaborated with teams, improved backend using Spring-Hibernate, ensuring seamless data management.
- Implemented Android, BLE, Google Maps, and Rest API, showcasing diverse tech proficiency.
- Actively participated in brainstorming sessions and contributed innovative ideas for new features, user friendly designs etc., fostering a collaborative and dynamic team environment.

## PROJECTS

**LEGALAID SCHEDULER – CASE MANAGEMENT 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.
- Implementing AI-driven enhancements for streamlined legal workflows, reducing manual entry by approximately 15 hours/week.
- Conducting rigorous unit testing and debugging to ensure the highest quality of code.

**DRIVEWAVE – GESTURE CONTROLLED ROBOT CAR**

DECEMBER 2021

- Collaborated on seamless integration of a hand gesture recognition ML model with Arduino-based robot car, optimizing real-time interaction.
- Engaged in hardware configuration and software interfacing, ensuring precise execution of gesture commands and enhancing overall user experience.

## 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 and Scalable Querying.
- **Teaching Assistant** - Cloud Application Development, 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**