

MAHESH NARPAT CHAND

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Versatile Software Engineer with experience in health insurance seeking Software Engineering opportunities.

SKILLS

Programming Languages – Python, Java, JavaScript, Scala, C++, Bash

Frameworks & APIs – NextJS, React, NodeJS, Spring Boot, Hibernate, RESTful, Jest, PyTest, OpenAI

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

Tools - Git, Apache Airflow, Jenkins, Docker, Kubernetes, DataStage, Jira, ServiceNow

EXPERIENCE

TEACHING ASSISTANT | OREGON STATE UNIVERSITY, Corvallis

September 2022 – Present

- Teaching assistant for Cloud Application Development and Mobile Application Development courses.
- Provided guidance to over 70+ students on topics in Google Cloud Platform, Flutter and Jetpack Compose.

DATA ENGINEER INTERN | UNITEDHEALTH GROUP, Minnetonka, MN

June 2022 – September 2022

- Enhanced validation efficiency by 15% by customizing an open-source data-validator in Scala, implementing additional validators for various data types which resulted in more accurate data assessments.
- Adapted the data-validator for various data pipelines to mitigate downstream impacts, resulting in a 30% reduction in errors and smoother data flows.
- Facilitated automatic ticket generation for erroneous data, resulting in improved turn-around time.

ASSOCIATE SOFTWARE ENGINEER | OPTUM, Remote

July 2020 – August 2021

- Streamlined ETL workflow efficiency by 50% through cloud migration, using Linux, Python and Apache Airflow.
- Improved ticket tracking and SLA management by developing a full-stack DevOps dashboard for IT Service Management, using Java, MongoDB, Docker, and Kubernetes, leading to better organizational efficiency.
- Contributed to the SDLC process, adhering to Agile principles, and performed comprehensive code reviews.

PROJECTS

CASE MANAGEMENT SYSTEM | Next.js, AWS, Git, CI/CD, Python, REST

January 2023 - January 2024

- Full-stack web-app, encompassing PDF text extraction, AI integration & calendaring using Next.js and Flask.
- Integrated with OpenAI's GPT model to provide additional processing and enhanced output.
- Utilized GitHub Actions to deploy automated testing workflows to build and test every pull request.

GESTURE CONTROLLED ROBOT CAR | Arduino, Python, TensorFlow, NumPy, Pandas

December 2021

- Built an Arduino based robot car controlled by hand gestures model developed using VGG-16 CNN model.
- Worked on the hardware configurations and software interfacing of the car and the ML model.

CYCLING FITNESS APP | Android, REST API, Spring, Hibernate, BLE, Maps

July 2019

- Built a cycling-fitness tracking Android app and optimized database operations using Spring Boot & Hibernate.
- Implemented GPS tracking, BLE device connectivity, Google Maps API, and Rest API for data transaction.

EDUCATION

MASTER OF SCIENCE IN COMPUTER SCIENCE | SOFTWARE ENGINEERING

March 2024

OREGON STATE UNIVERSITY, CORVALLIS, OR

GPA 3.94/4.0

Relevant Coursework - Algorithms, Software Engineering Methods, Human Computer Interaction, Database Management Systems, Deep Learning, Information Retrieval, Intro to Robotics and Scalable Querying.

BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE

May 2020

SRM INSTITUTE OF SCIENCE & TECHNOLOGY

GPA 3.56/4.0

AWARDS & HONORS

- Received multiple awards and recognition for dedicated and on-time project delivery at Optum in 2020-21.
- Published papers on [Neural Machine Translation](#) and [Outfit Recommendation using Deep Learning](#).
- Online certifications in Neural Networks & Deep Learning, ML, Android N and AWS Solutions Architect*.