

SHUBHAM RAJRAH

Los Angeles, California | shubhamrajrah.com | (213) 574-8306 | shubhamrajrah@gmail.com | linkedin.com/in/shubham-rajrah/

EDUCATION

University of Southern California

Master of Science in Computer Science – GPA: 3.65/4

Relevant Coursework: Analysis of Algorithms, Database Systems

Los Angeles, CA

January 2023-December 2024

SRM Institute of Science and Technology

Bachelor of Technology in Computer Science and Engineering - GPA: 9.30/10

Relevant Coursework: Data Structures and Algorithms, Discrete Mathematics, Machine learning, Computer Networks

Delhi, India

May 2016-May 2020

TECHNICAL SKILLS

- Development: Web - MEAN, MongoDB, Express, Angular, and Node, APIs, HTML, CSS, JS, PHP; PLSQL - Stored Procedures, Triggers; Java - Spring boot; Python - Flask, TensorFlow; C/C++; Git; Cloud - Microsoft Azure, Kubernetes, Apache Spark;
- Deployment: Docker, OpenShift, CICD-Jenkinsfile, Jenkins UI
- Databases: PLSQL, MySQL, MongoDB, SparkSQL
- Testing Automation: Python - Robot Framework, Junit, Jasmine Test framework

WORK EXPERIENCE

USC Viterbi Marketing and Communications Office

Web Development Student Worker

- Specialize in website creation, maintenance, and issue resolution for USC Viterbi School of Engineering, while also providing expertise in staff training, project management, and data research review

Los Angeles, CA

May 2023-Present

Optum (UnitedHealth Group)

Assoc. Software Engineer II, Core Development Team

- Developed and maintained an online portal to enroll healthcare providers and state agents in the US as a full stack developer
- Implemented various technical features after strategizing and discussing requirements with product team
- Collaborated in a team of 4 to Improve code quality by analyzing and fixing high priority defects
- Maintained and optimized a data pipeline to Extract, Transform, Validate, and Load large-scale member health data for downstream consumption leveraging PLSQL, Java, python, DevOps, reducing runtime by 81%
- Designed, developed and automated test data file generation process for testing framework
- Served as a Quality Assurance resource to Identify, analyze and resolve issues in product
- Optimized cloud data pipeline by 30%, based on Apache Spark for handling large-scale data for insurance and claim adjudication

Chennai, India

January 2020-December 2022

Pro Ace International

Full Stack Developer

- Conceptualized and established an online platform called UnderdogIdols for budding Singers & Performers along with functionality to upload videos with voting features by registered users
- Devised an algorithm to match performers with music label companies based on various data key points, improving matching efficiency by 90%

Remote, US

January 2019-January 2020

ACADEMIC PROJECTS

covid19-social.com | Python, Flask, HTML, CSS, JS

- Designed and deployed a website during Covid to help users find Covid-19 resources such as oxygen cylinders, beds etc
- Devised an algorithm to match social media feeds with user requirements using various APIs

Vaccination Slot Booking for Covid-19 | Python, Flask, MySQL

- Created a service for users to register for the Covid-19 vaccination slot booking notification by consuming an API endpoint periodically to check for free slots, serving each user in a non-discriminatory fashion

Recommending Reusing DIY Ideas using Waste Recognition

- Collaborated in a team of 2 to build a real-time waste object recognition system using Convolutional Neural Networks with transfer learning model ResNet-50 with a validation accuracy of 87.48%
- Built a knowledge-based recommender system to recommend reusing ideas to users leading to reduced waste generation

PUBLICATIONS

- "Do-It-Yourself Recommender System: Reusing and Recycling with Blockchain and Deep Learning," published in IEEE Access, volume 10, pp 90056-90067, 2022

LEADERSHIP AND INVOLVEMENT

- Spearheaded a team of 5 called HealthCera as Team Leader at Optum Global Hackathon
- Awarded the Sapphire Award for effective approach, professional ethics, and collaborative nature at Optum Bravo Awards
- Facilitated the Diamond Award for technical innovation and leadership at Optum Bravo Awards
- Secured membership at Asli Baat, USC's Premier South Asian Fusion A Cappella Team