

Sanchit Relan

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EDUCATION

Syracuse University - College of Engineering & Computer Science, Syracuse, New York

May 2024

Master of Science, Computer Science

Relevant Coursework: Introduction to Artificial Intelligence, Natural Language Processing, Object Oriented Design, Structured Programming, Blockchain Fundamentals, Design and Analysis of Algorithms, Computer Architecture, Database Management Systems.

Vellore Institute of Technology - School of Computer Science, Vellore, Tamil Nadu, India

June 2021

Bachelor of Technology, Computer Science Engineering

EXPERIENCE

Software Engineer II, Cisco Systems – San Jose, CA

June 2024 - Present

- Resolved issues in Cypress test cases and Python scripts, resulting in streamlined Jenkins pipelines and enhanced automated test coverage for Cisco Secure Access.
- Implementing AI based research utilizing RAG for log analysis for Cisco Secure Access.

Software Engineer II Intern, Cisco Systems – San Jose, California

May 2023 - July 2023

- Engineered and Optimized a private app test bed, reducing deployment time to 3 minutes, boosting test efficiency for Cisco Secure Access. Engaged in problem-solving and solution design through active participation in daily team discussions.
- Led UI test automation for Cisco Secure VPN client using Pywinauto, boosting test accuracy and efficiency by automating user interface interactions, crucial for client application integrity.
- Leveraged advanced tools and technologies including Python, Nginx, Docker, AWS and linux for scripting, automation and cloud-based deployments, contributing to scalable and efficient testing environments.
- Utilized Git and JIRA for version control and project tracking, adhering to Agile and Scrum methodologies for effective project management and team collaboration.

Software Developer, Oracle – Bengaluru, India

July 2021 - July 2022

- Designed and streamlined deployment process for Virtual Network Functions (VNFs), for the Diameter Signaling Router (DSR) product, achieving a 20% reduction in deployment time with the use of Java and OpenStack, enhancing VNFM product.
- Implemented Swagger for comprehensive documentation of RESTful APIs, significantly improving clarity, standardization, and usability, facilitated automation and lifecycle management of VNFs.
- Enhanced automation testing frameworks and optimized CI/CD pipelines using Cucumber for unit tests and GitLab for continuous integration, increasing the reliability and efficiency of VNF deployments.
- Crafted and integrated TOSCA-based templates for cloud deployment into VNFM's technology stack, ensuring compliance with ETSI NFV-SOL 007 standards and supporting the product's adherence to telecom sector regulations.

Software Intern, EazyDiner – Delhi, India

February 2021 - April 2021

- Led the development of a web-based application for restaurant search and booking, significantly increasing the customer UI experience through the use of ReactJS, MongoDB, NestJS, NodeJS, and REST APIs.
- Employed Docker for containerization, with Postman and Git for testing and version control, simplifying deployment and development processes.

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, TypeScript, SQL, Solidity, Bash, YAML, C.

Databases/Operating Systems: Linux/Unix, MYSQL, SQLite, MS-SQL, PostgreSQL, ChromaDB, Oracle 11g, MongoDB.

DevOps & Cloud: Docker, AWS, Openstack, CI/CD, Jenkins, Nginx, Apache Tomcat.

Backend Frameworks: Flask, Spring Boot, NestJS, SQL Alchemy.

Frontend/Web Frameworks: ReactJS, NextJS, NodeJS, REST API, HTML5, CSS, TypeScript, JavaScript.

Framework/Libraries: Langchain, Pywinauto, Maven, Swagger, Tensorflow, OpenCV, Pandas, NumPy.

Tools: Visual Studio Code, GitLab, GitHub, Code Collaborator, VirtualBox, Kanban Board, Jira, Eclipse, Postman.

Certifications: Generative AI with Large Language Models, Server-side Development with NodeJS, Express and MongoDB (Coursera).

PROJECTS

AI-Powered News Aggregator

June 2023

- Built AI-powered news aggregator using Python, LangChain, Llama 3, and ChromaDB, integrating News API for real-time article retrieval.
- Utilized RAG (Retrieval-Augmented Generation) technique with ChromaDB as vector database for intelligent text processing and AI-driven newsletter generation.

Gomoku AI

December 2023

- Engineered a Gomoku-playing AI, utilizing a 6-layer sequential CNN with RELU activation and a custom heuristic minimax algorithm, enhancing game state analysis and move selection.
- Optimized AI's strategy and performance, achieving ~84% accuracy and a consistent win rate of over 75% by training on historical game data.

Ethereum Based Sports Betting App

December 2022

- Established an Ethereum-based sports betting application utilizing Solidity Language and deployed on the Goerli test net.
- Implemented front-end leveraging ReactJs and Material UI and connected it to the Ethereum blockchain leveraging web3. Improving the reliability of sports betting.