

Adarsh Raj

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EXPERIENCE

MICROSOFT | SOFTWARE DEVELOPER

Aug 2023 – Present | Hyderabad, India

- Created a **JavaScript** module for precise user telemetry, optimizing Copilot.
- Expertise in API Gateways, Azure **Cloud** and **DevOps**, CosmosDB, and SQL.
- Developed a **C# ASP.NetCore** Service for insights into MSCommerce customers.
- Elevated UX of MSCommerce Copilot by leveraging **React** and **Fluent UI**.

ZENSKAR | FOUNDING ENGINEER INTERN

Dec 2022 – May 2023 | Bangalore, India

- Worked on the backend of the billing system utilizing **FastAPI** and **DynamoDB**.
- Developed complex pricing model nodes using **AWS Lambda** and **Step functions**.
- Utilized **CWL** to make pricing nodes independent, but compatible with each other.
- Created a Contract Template Builder using **ReactFlow** for customers.

MICROSOFT | SOFTWARE DEVELOPMENT INTERN

May 2022 – July 2022 | Hyderabad, India

- Implemented a Monitoring System on **Azure DevOps** Data for **Cloud And AI** Team
- Experimented on multiple data models to parse **Azure Cloudmine Cluster** data
- Added **PowerBI** and **Kusto** API calls for real-time data monitoring

PHILIPS INNOVATION CAMPUS | ML RESEARCH INTERN

May 2021 – July 2021 | Bangalore, India

- Reviewed literature on different market solutions for **federated data lake** indexing
- Implemented **HAPI JPA** Generic Client **REST API** using **Jetty** and **docker**
- Proposed an indexing schema in **PostgreSQL** for FHIR, DICOM, and Blob data

PROJECTS

REAL TIME CRYPTO TRADING BOT PYTHON | SELF PROJECT

IIT Bombay | Autumn 2022

- Developed an automated trading bot using WebSockets, TA-Lib, and Binance API
- Executed Ethereum orders and tweaked the strategy to find a combination aligning with personal goals and timeframe

ANTI TIC TAC TOE PYTHON | COURSE PROJECT

Prof. Shivaram, IIT Bombay | Autumn 2021

- Encoded the game of anti tic tac toe as a Markov Decision Problem
- Solved the MDP using Value Iteration, Howard's Policy Iteration, and Linear Programming and obtained optimal strategies for both players

ONLINE COMPETITION AND DEVELOPMENT ENVIRONMENT | COURSE PROJECT

Prof. Amitabha, IIT Bombay | Spring 2021

- Developed an Angular based web IDE supporting multiple languages
- Utilized PHP along with shell scripting for compilation and execution of user code
- Provided features for real-time grading utilizing MySQL and PhpMyAdmin

BLOCKCHAIN SIMULATOR PYTHON | COURSE PROJECT

Prof. Ribeiro, IIT Bombay | Autumn 2021

- Implemented discrete-event simulator of a P2P cryptocurrency network with transactions and block forwarding
- Simulated selfish and stubborn mining attacks along with results verification

EDUCATION

IIT BOMBAY

BACHELOR'S IN COMPUTER SCIENCE

Aug 2019 - May 2023 | India

CGPA: 9.27 / 10.0

Department Rank: 45

DELHI PUBLIC SCHOOL

INTERMEDIATE, STREAM: SCIENCE

May 2019 | CBSE

Percentage: 95.4 / 100

DAV HEHAL

MATRICULATION

May 2017 | CBSE

CGPA: 10.0 / 10.0

SKILLS

PROGRAMMING

Experienced:

C++ • Python • SQL

Familiar:

L^AT_EX • Java • Bash • JavaScript

TOOLS/PLATFORMS

Angular • MATLAB • Docker

React • AWS • Azure • CWL

ACHIEVEMENTS

JEE 2019

Advanced

All India Rank 344

Mains

All India Rank 394

KVPY FELLOWSHIP 2018

All India Rank 73

REGIONAL OLYMPIADS

Mathematics | 2018

State Rank 1

Science | 2018

State Rank 1

KEY POSITIONS

TEACHING ASSISTANT

CSE DEPARTMENT, IIT BOMBAY

Sept 2021 - Nov 2022

CORE MEMBER

DEVELOPERS' COMMUNITY, IITB

April 2020 - May 2021