

Adarsh Raj

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EDUCATION

IIT Bombay

Bachelor's with Honors in Computer Science | GPA: 9.27/10

Mumbai, Maharashtra, India

Aug 2019 - May 2023

WORK EXPERIENCE

Microsoft

Software Developer, Hyderabad, India

Aug 2023 - Present

- Engineered an **AI Assistant** in **React** to integrate with **Azure Portal**, accelerating MS sellers' quoting and contracting by **5x**.
- Developed **C# ASP.NET** services for MS Commerce, improving operations for **thousands of sellers and partners globally**.
- Expertise in Azure **API Gateways**, **Cloud** and **CI/CD Pipelines**, CloudShell Scripts, **CosmosDB**, and **MS SQL**.
- Implemented **UI/UX** features in **React** and using **Fluent UI**, for telemetry optimization and improving user engagement.
- Automated **auditing** and **failover** for critical cloud resources, **improving disaster recovery by 50% for 20+ teams**.

Zenskar

Founding Engineer Intern, Remote

Dec 2022 - May 2023

- Engineered invoicing with **FastAPI** and **AWS DynamoDB** for scaling **thousands** of transactions with high performance.
- Built complex pricing nodes using **AWS Lambda** and **Step Functions** for automated contracting for **multiple clients**.
- Integrated **ReactFlow** to build a **Contract Builder** for business clients, decreasing **contract generation time by 30%**.

Microsoft

Software Developer Intern, Hyderabad, India

May 2022 - July 2022

- Implemented an **Azure Network** monitoring system in **PowerBI** using **KQL**, cutting response times to critical events by **40%**.
- Worked on data models for parsing **Azure Cloudmine Cluster** to create organization-wide dashboards for over **500 users**.

Philips

AI/ML Research Intern, Bangalore, India

May 2021 - July 2021

- Implemented **HAPI JPA** Generic Client REST API using **Jetty** and **Docker**, to be used by **1000s of health practitioners**.
- Reviewed Data Lake literatures and proposed indexing schemas in **PostgreSQL** involving **millions of data points**.

TECHNICAL SKILLS

Programming Languages: C, C++, Python, C#, JavaScript, TypeScript, HTML, CSS, SQL, PHP, Bash

Tools: Azure Cloud, DevOps, ThreeJS, PyTorch, Pandas, Numpy, Git, Docker, MATLAB, PyGame

Frameworks: React, Angular, NextJS, WebRTC, Django, FastAPI, Flask, .NET, Tailwind, Microsoft SQL

PROJECTS

- Online IDE:** Created a multi-language web IDE using **Angular** for UI/UX, utilizing shell scripting for user code compilation and execution using **PHP**, and data in **MySQL**. [GitHub](#)
- Stocks Analyzer:** Developed a stock analyzer webapp using **PostgreSQL** for DB, **Python** for data API scripting, **NodeJS** for APIs, and **Angular** for UI/UX, facilitating comprehensive stock analysis and visualization. [Github](#)
- Binance Trading Bot:** Automated trading bot built using **WebSockets**, **TA-Lib**, and **Binance API**, that executes **Ethereum** trades based on the RSI indicator and tweaks strategy to optimize. [Github](#)
- AnonChat:** Real-time chat application built using **React** for UI/UX, **Node.js** for **Socket IO** server, and **WebRTC** for peer-to-peer connections. Facilitates anonymous video and text chat between users. [Github](#)
- Anti Tic Tac Toe:** Encoded the game of Anti Tic Tac Toe as a **Markov Decision Problem** and solved using different **Reinforcement Learning** algorithms in **Python** and obtained optimal strategies for both players. [Github](#)
- 3D Seismic Visualizer:** Interactive GUI in **Python** and visual representation tool for subsurface geology by creating **3D images of seismic volumes** for interpreting horizons and identifying fault planes. [Github](#)

ACHIEVEMENTS

- Joint Entrance Examination (IIT JEE):** All India **Advanced** Rank: **344**, All India **Mains** Rank: **394**
- Kishore Vaigyanik Protsahan Yojna (KVPY):** All India Rank: **73**
- Microsoft Garage Hackathon:** **Winner** for category - Hack in AI for D&I

KEY POSITIONS

- Teaching Assistant** for Systems, Operating Systems and C++, at CSE, IIT Bombay Sep 2021 - Nov 2022
- Core Member** in Developer's Community at IIT Bombay April 2020 - May 2021