Sujit Kumar Killi

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EDUCATION

The University of Texas at Dallas, USA	December 2023
Master of Science, Computer Science	**4.0/4.0**
Jonsson School Dean's Graduate Scholarship recipient	
Indian Institute of Technology, Delhi, India	May 2019
Bachelor of Technology, Civil Engineering	**7.9/10.0**

PROFESSIONAL EXPERIENCE

Student Outreach Instructor (Student Assistant), The University of Texas at Dallas　　May 2022 - August 2022
- Upskilled hundreds of young aspiring kids and introduced novel ideas about the contemporary technologies in the field of Computer Science like JavaScript, Java, and their implementation in real world applications

Software Engineer, Microsoft (consultant), Zen3 Infosolutions (subsidiary of Tech Mahindra)　　June 2020 - December 2021
- Shipped solutions for Microsoft, using React, C# and SQL, to manage feedback from 10,000 world-wide customers
- Delivered services to surface thousands of AI/Machine Learning recommendations to enhance product capabilities, primarily for Azure, Teams, and Power Platforms through OneList, Unified Action Tracker and Customer Success Stories applications
- Designed end-to-end QA automation capabilities using Selenium to integrate test cases into build verification process to standardize and improve quality and reliability of the products and solutions by using quarter of the initial workforce
- Authored build automation workflow with Azure DevOps to maximize productivity through CI/CD pipelines and agile tracking

Business Analyst, OYO Hotels & Homes　　June 2019 - June 2020
- Championed driving insights into various operations and finance metrics at business vertical level using SQL for data extraction & Python for data analysis to understand past information and identified key observations in business operations
- Incorporated Machine Learning techniques like "K-means clustering" and "Time series forecasting" for predicting business metrics like room occupancy, bookings made, realization of bookings with 60% to better profits
- Pioneered a new business metric to better explain performance and used forecasts to improve the same by 20%

Software Engineer Intern, Hoi Food Concepts　　May 2018 - February 2019
- Automated supply chain processes using ZOHO to increase efficiencies in Inventory Management and Point-of-Sale, P&L at both Warehouse and Sale point levels which doubled the transactions being captured in the system
- Developed a minimalistic Android-based application integrating Android Studio and Google Firebase services to automate HR Training for 50 chefs that enhanced their skills and compliance levels
- Assisted in creating a healthy work environment through the application and reduced monthly employee attrition rate by half

PROJECTS

Music band management system (Prof. Jalal Omer)　　June 2022 - August 2022
- Created a full-stack application for the band system users utilizing MySQL for database design, after analyzing various relations among data entities, and bridged the backend to the frontend using Spring Boot technology by developing APIs.

Nine Men's Morris (Prof. Haim Schweitzer)　　July 2022 - August 2022
- Worked on heuristic search algorithms to make an AI play a two player game in the best possible way with a precision of 95%

Junctions & Roads (Prof. Saroj Kaushik)　　April 2018 - April 2018
- Constructed a Minimum Spanning Tree for a network of hundreds of roads and junctions across a city using Prim's Algorithm and implemented Dijkstra's Algorithm to discover the shortest time path for the network that included weighted nodes

Calculation of TET for Academic Buildings (Prof. K. Ramachandra Rao)　　July 2017 - November 2017
- Constructed a CAD model of the Lecture Hall Complex (LHC), IIT Delhi and devised a model for the approximation of "Total Evacuation Times" of the same with an accuracy of 90%. Built a Java GUI extending its usage to generic "Academic Institutions"

TECHNICAL SKILLS

- **Programming Languages –** C, C++, C#, Java, Python, JavaScript, TypeScript
- **Software Utilities –** Git, React JS, Spring Framework, Angular, Jira Software, Jenkins, Selenium, Azure DevOps, Azure, SQL Server, Android Studio, AWS, Node.js, Google Firebase, MATLAB, ZOHO

COMPETITIONS AND LEADERSHIP

- **Summer Undergraduate Research Award**, IIT Delhi　　June 2017 - October 2017
- **Board of Recreation and Creative Activities,** Representative of Music club　　August 2016 - May 2017