

## MEHUL MAHESHWARI

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Versatile software developer with experience in designing, developing and implementing impactful solutions across frontend and backend systems, optimizing performance, and enhancing user experience, while collaborating effectively in cross-functional teams to deliver high-priority projects. Quick learner and adaptable team player, thriving in collaborative environments to deliver efficient solutions.

### ACADEMIC QUALIFICATION

**Bachelor of Technology (B.Tech)**, Computer Science and Engineering, Manipal Institute of Technology, Karnataka, CGPA- 8.1 **July 2019 - July 2023**

### TECHNICAL SKILLS

- **Languages:** ReactJS, NextJS, HTML, CSS, JavaScript, TypeScript, jQuery, Node.js, Python, PHP, C#, C++, Azure KQL, Java, SQL, Dart, AG-grid
- **Technologies:** Laravel, .NET, Microsoft SQL, MongoDB, MySQL, VS Code, Azure Pass, Azure Monitoring, Power Bi, GitHub, GitHub Actions, Unity, Selenium, Cypress, Flutter, Databricks
- **Security & Vulnerability Management:** Vulnerability Assessments, Security Risk Mitigations
- **Project Management Tools:** PowerPoint, Excel, Word, Project Documentation

### WORK EXPERIENCE

Shell India Markets Private Limited, Bangalore | Full-Stack Developer

August 2023 - Present

- **SPARK FDAi Project:**
  - Contributed to various features on both the frontend and backend of the project, supporting a high-priority application critical to Shell Lubricants development and production, leading to time, cost, and effort savings while reducing carbon footprint
  - Modified and updated the Search functionalities using ReactJS and TypeScript in the front end and improved backend using Python along with MS SQL and Databricks, handling large structured/ unstructured files using Azure Pass, significantly enhancing performance
  - Integrated Azure Application Insights for monitoring key usage metrics and collaborated and led the development of Power Bi dashboards for Wipro, Databricks, and FDAi applications
  - Worked with Azure AI Search by creating and scheduling indexes/indexers to improve retrieval performance and data accessibility
  - Designed and updated APIs and managed table modifications to improve backend reliability and data workflows
  - SPARK FDAi was awarded runner-up in the 2024 Shell.ai Code Masters Awards
- **Digital Health Check (DHC) Project:**
  - Revamped the functionality and logic for the Risk Assessment Matrix and related forms using ReactJS and Node.js with MS SQL, improving data integrity, enhancing the user experience, and making understanding of the risks involved in registered projects easier
  - Improved export functionality for reports and dashboard page readability by adding filters for better analysis and data visualization
  - Implemented modularization to decouple features, improving performance and enabling safer updates
- **General Contributions:**
  - Identified and resolved critical vulnerabilities and security risks, improving the security posture of the projects
  - Performed codebase optimizations aligned with Green Software principles, improving efficiency and reducing redundancy
  - Authored internal Stack Overflow articles to simplify Application Insights setup and support wider knowledge sharing

### INTERNSHIPS

Knack Systems, Mohali | Technical Intern

January 2023 – July 2023

- Gained proficiency in automation testing and manual testing of websites creating automation suites
- Utilized Cypress and Selenium to write efficient automated tests covering web controls, alerts, frames, and child windows
- Gained knowledge of JavaScript and its syntax for scripting and customization of tests

MVPEX, Delhi | Technical Intern

June 2022 – July 2022 (2 months)

- Developed full-stack web applications using the MERN stack, gaining comprehensive knowledge of front-end and back-end development
- Produced high-quality graphic designs for various clients, demonstrating creativity and technical skills
- Showcased strong troubleshooting abilities, collaborating with team members to resolve technical challenges

Good Game Nation (formerly GG1) | Campus Manager

June 2021 – June 2022

- Nurtured the gaming community in Manipal by organizing events and creating opportunities for student gamers to participate in esports tournaments.
- Acted as a liaison between companies, student clubs, and university authorities to promote events, establish branding, and increase student engagement, promoting GG1 using social media and on-campus activities, helping expand their presence.

## ACADEMIC PROJECTS

**Title:** Linux Custom Shell [Manipal Institute of Technology, Karnataka]

**Sep 2021 - Nov 2021**

**Team Size:** 4

**Role:** Software Developer & Team Lead

### Summary/Description:

Developed a custom Linux Shell that incorporated basic and complex commands for file handling, process management, and custom shell functionalities. Implemented features like fuzzy autocomplete, file search, and running process monitoring using Python alongside libraries like *psutil* and *magic*. The shell improved user interaction with the OS, offering enhanced control and management of processes, memory, and file systems. Practical applications include providing an efficient interface for Unix systems, with the potential for automation tasks.

**Title:** Traffic Analyzer Based on TCP Header Flags [Manipal Institute of Technology, Karnataka]

**November 2021**

**Team Size:** 2

**Role:** Software Developer & Team Lead

### Summary/Description:

Developed a command-line tool to analyze TCP traffic by capturing packets using Wireshark and filtering them based on TCP header flags. The project extracted relevant metadata from TCP packets within a *.pcap* file, checking flags like *SYN*, *ACK*, *FIN*, *PSH*, *RST*, and *URG* using Python and libraries like *Scapy*. This tool aided in analyzing network traffic and TCP connection states, demonstrating practical applications in network troubleshooting and monitoring. Gained hands-on experience with network protocol stacks, packet structure, and Python for network analysis.

## TECHNICAL CERTIFICATIONS

- **Microsoft Azure AI Fundamentals (AI-900)** | Microsoft | Nov 11, 2025
- **Certified in Cybersecurity (CC)** | ISC2 | Oct 13, 2025
- **Green Software for Practitioners (LFC131)** | The Linux Foundation | Jun 15, 2024
- **Graph Analytics for Big Data** | Coursera (University of California San Diego) | Aug 2022 – Oct 2022
- **Machine Learning with Big Data** | Coursera (University of California San Diego) | Aug 2022 – Nov 2022
- **Introduction to Big Data** | Coursera (University of California San Diego) | Jan 2022 – Mar 2022
- **Big Data Big Data Integration and Processing** | Coursera (University of California San Diego) | Jan 2022 – Apr 2022
- **Big Data Modeling and Management Systems** | Coursera (University of California San Diego) | Jan 2022 – Apr 2022

## WORKSHOPS

- DP-3007 - Train and deploy a machine learning model with Azure Machine Learning | Trainocate and Microsoft Collaboration, Bangalore | June 2024
- Building AI Apps - OpenHack | Shell India Markets Private Limited, Bangalore | March 2024

## ACHIEVEMENTS/ CO-CURRICULAR/ EXTRACURRICULAR

- Secured 1<sup>st</sup> position in Table Tennis | October 2025
- Volunteered DSE Olympix (Sports Competition), Cultural Collab, Diversity and Inclusivity events | 2025
- Participated in Shell App Hackathon | August 2025
- Participated in Cisco SecCon 2020 APJC CTF 2020, picoCTF 2021 and SIH hackathon 2021
- Received 3<sup>rd</sup> prize in Sastra Pratibha Contest in High School | February 2018
- Participated in Sheikh Hamdan Bin Rashid Al Maktoum Award, a nationwide competition, received Certificate of Excellence for the year 2017-18
- Secured 2<sup>nd</sup> position in Inter House Debate Competition, Abu Dhabi | 24<sup>th</sup> September 2017
- Secured 1<sup>st</sup> position in School and 31<sup>st</sup> State rank in International Olympiad (Informatics) | February 2017
- Secured 3<sup>rd</sup> position in International Olympiad of Mathematics 2016 | February 2017
- Secured 3<sup>rd</sup> position in Inter-School CBSE Cluster for 25 x 4 Relay Swimming, Abu Dhabi | 31<sup>st</sup> May 2016
- Secured 1<sup>st</sup> position in Inter House Debate Competition, Abu Dhabi | 25<sup>th</sup> November 2015
- Secured 2<sup>nd</sup> position in Elocution Competition, Abu Dhabi | 24<sup>th</sup> November 2015

## LEADERSHIP ROLES

- Treasurer (Executive Board) | MIT Gaming (College Club) | November 2021 – January 2023
- Human Resource Head | Manipal Information & Security Team (College club) | June 2021 – October 2022
- Campus Manager at Manipal Institute of Technology, Karnataka | Good Game Nation | May 2021 – May 2022
- Human Resource Head | MIT Gaming (College club) | May 2020 – November 2021
- Member of Hostel Committee | MIT Manipal (College Organization) | July 2019 – June 2020
- Student Council President (Headboy) | Abu Dhabi Indian School Al Wathba | April 2018 – April 2019

## COMMUNITY INVOLVEMENT

- Volunteer at Blood donation drive | Bharat Vikas Parishad, Pilkhuwa | 3<sup>rd</sup> August – 5<sup>th</sup> August 2024
- Volunteer at a Nursing Home for mentally challenged | Apna Ghar Ashram, Pilkhuwa | 23<sup>rd</sup> July 2023
- Worked as a volunteer at RED-X-DISHA ( A Community for Social Services) ,visited orphanages and spent time with the children | MIT Manipal, Karnataka | August 2019 - June 2023
- Member of Rotaract Club - participating in donation drives for charity | MIT Manipal, Karnataka | July 2019- June 2023
- Volunteered for teaching students in school for one week | Tiny Tots Academy, Hapur | June 2019
- Collaborated with Emirates Red Crescent, Abu Dhabi to distribute snack boxes to the public before Iftar during Ramadan | August 2017
- Blood Donation Drive and Tree Plantation | Bharat Vikas Parishad, Hapur | 29<sup>th</sup> July – 13<sup>th</sup> August 2017
- “Love Food Hate Waste” Food waste awareness drive | ADIS, Al-Wathba, Abu Dhabi | 9<sup>th</sup> May 2016