Manish Tomar

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SKILLS

Programming Languages: C, C++, C#, Python, JavaScript
Frameworks and Libraries: Next.js, React.js, Tailwind CSS, .NET MAUI, Node.js, ASP.NET Core, Flask
Databases: MongoDB, Firebase, DynamoDB, SQL Server, MySQL
Cloud Platform: Amazon Web Services (AWS)
DevOps: Jenkins, Docker, Kubernetes
IoT and Embedded Systems: ESP32, Nordic Semiconductors, Wi-Fi to Cloud Transmission

EXPERIENCE

Centre for Process Innovation (CPI)   **Sedgefield, United Kingdom**
Software Engineer - Placement Student   **July 2024 - July 2025**

- Working on the **5G Testbed Project**, partnering with **Cellnex UK** and **NHS** to drive HealthTech innovations through advanced 5G technologies.
- Developing and deploying embedded systems using **Nordic Semiconductor** boards and various sensors to enable real-time data collection and seamless integration with **AWS Cloud Services**.
- Architecting scalable cloud solutions with **AWS IoT Core**, **DynamoDB**, and **Lambda functions** to ensure efficient sensor data processing and storage.
- Building robust backend services with **ASP.NET Core** and creating user-friendly cross-platform applications using **.NET MAUI** to enhance device management and data visualization.
- Working on the **NetStick Project** in collaboration with **Belfast University**, focusing on real-time image capture and analysis using **ESP32S3-EYE** board and integrating with **AWS S3 Bucket** for secure storage.
- Implementing machine learning algorithms to deliver instant diagnostic results, optimizing image processing by managing raw and JPEG formats for effective model training and data display.
- Designing and developing the web application using **React.js** and **Flask**, creating intuitive patient and admin modules to streamline data management and enhance user experience.

SwapIt   **Cardiff, United Kingdom**
Founder   **September 2023**

- Founded an online platform enabling users to swap or donate used items, promoting sustainability.
- Building a full-stack web application using **React.js**, **Express.js**, and **MongoDB**.
- Integrating **AWS Services** such as **SES**, **SNS**, and **S3** for efficient email notifications, messaging, and storage.
- Received the **Outstanding Founder Award 2024 from Cardiff University**, accompanied by a prize of £1,500.
- **Watch Live →**

MoonDive   **New Delhi, India**
Software Development Engineer   **May 2023 - September 2023**

- Developing a real estate web application using **Next.js** and **MongoDB**, improving property listing efficiency.
- Implementing a **machine learning** recommendation system to suggest properties based on user preferences.
- Leveraging **Agile methodologies** to manage project workflows, facilitating regular client interactions to gather requirements and ensure timely delivery, thereby enhancing project alignment and client satisfaction.

EDUCATION

Cardiff University   **Cardiff, United Kingdom**
M.Sc. in Software Engineering with Placement   **September 2023 - September 2025**

Madan Mohan Malaviya University of Technology   **Gorakhpur, India**
Master's in Computer Applications   **May 2021 - May 2023**

Choudhary Charan Singh University   **Meerut, India**
Bachelor's in Computer Applications   **July 2017 - July 2020**

PROJECTS

ClinicEase   **2023 - 2024**
Founder & Developer   **2023**

- Conceived and developed **ClinicEase**, a comprehensive clinic management solution utilizing **Next.js 14** and **Google Firebase**. The platform features multi-clinic management, comprehensive patient records.
- Implemented robust data security measures by integrating **crypto-js** for data encryption and decryption, and leveraging **AWS SES** and **AWS S3** services for secure email notifications and data storage
- Enhanced user experience by developing distinct modules for doctors and patients, enabling real-time chat functionality, thorough visit documentation, and advanced search capabilities. Deployed the platform on **clinic-ease.netlify.app**, accessible with test credentials:
  - **Username**: doctor.test
  - **Password**: Test@123