

Harshita Ramesh

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Junior Software Engineer | CV & AI Specialist | ML

Career Summary:

▪ Software Engineer with 2 years of professional experience at Cognizant and a recently completed Master's student in Computer Vision & AI at The University of Limerick. Proficient in full stack development, .NET Core, SQL, and API integration, with strong programming expertise in Python, Java. Experienced in modernising legacy applications, automating workflows, and deploying scalable web solutions. Bringing a unique edge of AI/ML exposure to software development, enabling innovation driven solutions.

Professional Experience:

Cognizant Technology Solutions, India

2022 August– 2024 April

Junior Software Engineer

Demonstrated exceptional expertise as both a solo developer and a team player by overseeing tasks and operations, ensuring timely production deployment for web applications. Additionally, contributed effectively to Agile environments, facilitating collaboration and delivering high-quality solutions on time.

Accomplishments: ▪ Designed and deployed web applications using .NET Core and SQL (SSMS), improving performance of CRUD operations by ~50%. ▪ Migrated legacy MS Access and VBA applications to modern web Frameworks, reducing maintenance overhead and improving reliability. ▪ Automated routine tasks (emails, database updates), saving ~15 hrs/month in manual effort. ▪ Documented the application and created the Disaster Recovery documents for all the applications, improving operational resilience.

Cognizant Technology Solutions, India

2022 March – 2022 July

Intern

Completed ADM-Java training and implemented front-end enhancements using HTML, CSS, and JavaScript.

Key Skills

Programming Languages: Python, C#, Java, SQL, C, Kotlin, HTML, CSS, JavaScript.

Frameworks & Libraries: .NET Core, MVC, OpenCV, TensorFlow, PyTorch, Keras, Matplotlib, scikit-learn.

Tools & Technologies: SSMS, MySQL, MS Exchange, Git/GitHub, API Integration, Visual Studio.

Soft Skills: Agile Methodologies, Team Collaboration, Documentation, Problem solving.

Projects

• **Exercise Monitoring Application with Pose Estimation (GitHub):** Developed a real-time Android app using Kotlin and MediaPipe for multi-exercise tracking with audio feedback, improving user engagement and accuracy. Achieved >95% accuracy in detecting reps across multiple exercises.

• **Gesture Detection Interface (GitHub):** Built an embedded Python hand gesture recognition system optimized for low-power devices, demonstrating real-time interaction capabilities. Designed lightweight models to enable real-time gesture recognition with >90% accuracy.

• **Real-Time Crowd and Object Detection System (GitHub):** Engineered a raspberry pi system capable of tracking and labelling dynamic crowd movements with high accuracy within 20 seconds.

• **Undergrad Projects:** BT controlled Arduino bot, Line follower, Colour Sorter using raspberry pi, Soil Moisture Detection using Inter of things, IOT and Voice controlled health on wheels phone.

Education:

▪ Master of Engineering (MEng) in Computer Vision and AI - University of Limerick (2024-2025)

▪ Bachelor of Technology in Electronics & Communication Engineering - St. Joseph's Institute of Technology (2018-2022)