



HEMANT RAMPHUL

EMBEDDED AI & ROBOTICS ENGINEER | SOFTWARE ENGINEER

14+ years of experience

"Develop thoughtful, efficient, and elegant solutions to interesting problems."

♂ Male

📅 15 Jan 1987

🗣️ French, English and Mauritian Creole

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ABILITIES & PROFICIENCIES

Professional

- › Fluent in French, English, and Mauritian Creole.
- › Effective organization and prioritization of workload.
- › Quick adaptation to new techniques and technologies.
- › Efficient working with minimum supervision.

Personal

- › Creative problem-solver with a strong imagination.
- › Tactful communicator reliable and committed to excellence.
- › Energetic team player with initiative and meticulous attention to detail.

ACADEMIC QUALIFICATION

Master in Artificial Intelligence and Robotics

Université des Mascareignes and Université de Limoges
Rose-Hill, Mauritius (Nov 2021 - Dec 2024)

BSc (Hons) Software Engineering

Université des Mascareignes and Université de Limoges
Pamplemousses, Mauritius (Aug 2015 - Dec 2016)

Diploma in Information Systems specialize Software Development

Swami Dayanand Institute of Management
Pamplemousses, Mauritius (Aug 2008 - Dec 2010)

CERTIFICATIONS

- › Microsoft Certified Professional
- › Microsoft Certified Solutions Developer: Web Applications
- › MCSA: Web Applications
- › Android Certified Application Developer

SKILLS

Programming Language

- | | | |
|--------------|--------------|--------|
| › C# | › Dart | › Java |
| › JavaScript | › Python | › PHP |
| › VB.Net | › TypeScript | › SQL |

Framework, CMS, and Others

- | | | |
|------------------|----------------|-------------|
| › CodeIgniter | › NodeJS | › WordPress |
| › Flutter | › Xamarin | › Git |
| › Visual Studio | › VSCode | › Agile |
| › REST/SOAP APIs | › Sencha ExtJs | › MATLAB |
| › Google Colab | › Jupyter | › Foxglove |

Software and OS

- | | | |
|------------------------|-----------------|-----------|
| › Android Studio | › VSCode | › Eclipse |
| › Windows/Mac OS/Linux | › Visual Studio | › PyCharm |

AI and Robotics

- › **ML:** Supervised, Unsupervised and Deep Learning
- › **Computer Vision:** Image Processing, Object Detection
- › **Robotics:** Robot Kinematics, Robot Simulation, SLAM, ROS
- › **NLP:** Sentiment Analysis, NER, Text Classification
- › **Tools & Libraries:** TensorFlow, OpenCV, Scikit-learn, Embedded Systems and IoT, PyTorch, Keras, U-Net, YOLO

WORK EXPERIENCES

Embedded Artificial Intelligence & Robotics Engineer

LYNXDRONE (Sept 2024 – Present)

- › Developed AI tools for analyzing structural issues in building inspections.
- › Designed and implemented a data analytics platform to process, visualize, & manage inspection data, enhancing predictive maintenance capabilities.
- › Automated detection of structural pathologies to support proactive maintenance.
- › Optimized real-time data processing for on-site inspections on embedded systems.
- › Collaborated with teams to ensure AI solutions met industry standards for accuracy and reliability.

Senior Software Engineer

FULLL (Jan 2024 – Aug 2024)

- › Develop and implement OCR algorithms to enhance accuracy.
- › Use Node.js for backend development, React Native for cross-platform mobile apps, and Git for version control.
- › Design, develop, and maintain UI and features for web and mobile applications.
- › Communicate actively with teams via Slack and participate in technical discussions to support product development.
- › Stay updated on web technologies and create documentation for code, APIs, and system architecture.
- › Create and maintain technical documentation for code, APIs, and system architecture.

Senior Software Engineer

CEGID (Aug 2011 - Dec 2023)

- › Designed intuitive UI/UX interfaces and maintained application performance through bug fixes and enhancements.
- › Collaborated on innovative ideas and integrated third-party libraries for seamless web and mobile functionality.
- › Developed and implemented new features for web and mobile applications, leveraging in-depth mobile architecture knowledge and emerging tech.
- › Ensured seamless backend integration and optimized mobile experiences in fast-paced Agile/Scrum environments.
- › Championed code quality with regular reviews, promoting best practices and contributing to detailed installation and maintenance documentation.

PHP Developer

WEB COMPANIES (Feb 2011 - Aug 2011)

- › Designed & maintained dynamic websites & applications using PHP.
- › Produced clean, well-documented, and efficient PHP code.
- › Collaborated with front-end developers for seamless user-facing elements.
- › Played a key role in the maintenance of databases and servers.
- › Utilized version control systems (Git) to manage and track changes in the codebase.

PHP Developer

ESOKIA (Aug 2010 - Jan 2011)

- › Created websites using Drupal CMS with PHP.
- › Generated, maintained, and archived website content.
- › Added new features and resolved bugs for improved web applications.