HEMANT RAMPHUL

EMBEDDED AI & ROBOTICS ENGINEER | SOFTWARE ENGINEER

14+ years of experience
"Develop thoughtful, efficient, and elegant solutions to interesting problems."

♂ Male
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☰ ABILITIES & PROFICIENCIES

Professional
- › Fluent in French & English.
- › 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#
  - ▸ JavaScript
  - ▸ VB.Net
  - ▸ Dart
  - ▸ Python
  - ▸ TypeScript
  - ▸ Java
  - ▸ PHP
  - ▸ SQL

- › **Framework, CMS, and Others**
  - ▸ CodeIgniter
  - ▸ Flutter
  - ▸ Visual Studio
  - ▸ REST/SOAP APIs
  - ▸ Google Colab
  - ▸ NodeJS
  - ▸ Xamarin
  - ▸ VSCode
  - ▸ Sencha ExtJs
  - ▸ Jupyter
  - ▸ WordPress
  - ▸ Git
  - ▸ Agile
  - ▸ MATLAB

- › **Software and OS**
  - ▸ Android Studio
  - ▸ Windows/Mac OS/Linux
  - ▸ VSCode
  - ▸ Visual Studio
  - ▸ Eclipse
  - ▸ PyCharm

- › **AI and Robotics**
  - ▸ **ML**: Supervised, Unsupervised and Deep Learning
  - ▸ **Computer Vision**: Image Processing, Object Detection
  - ▸ **Robotics**: Robot Kinematics, Robot Simulation, SLAM
  - ▸ **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 and LAD algorithms, improving 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.