

Yuiry A

SOFTWARE ENGINEER

AI & Machine Learning Engineer | Chatbot & Automation Specialist

SUMMARY

Experienced Technical Lead and Fullstack Developer with 12+ years in scalable web development and system architecture. Over the last 2 years, actively focused on integrating AI assistants and NLP pipelines into enterprise platforms. Combines deep backend and CMS expertise (PHP, Laravel, WordPress, Moodle) with hands-on experience in AI-driven automation, vector databases, RAG pipelines, and chatbot systems. Adept at bridging business and technical domains through clear processes, custom integrations, and scalable AI solutions. Well-suited for roles involving AI audits, chatbot performance evaluations, prompt/response tuning, and integration of LLM pipelines into enterprise infrastructure.

Relevant Skills & Tech Stack

LLM & AI Tooling

- OpenAI GPT-4, Gemini 1.5 Flash
- RAG Architecture (Retrieval-Augmented Generation)
- ChromaDB, LangChain
- Vector Embedding Pipelines
- Fine-tuning and prompt engineering

AI Integrations

- Google Drive API, WordPress REST API
- Slack/Telegram Bots, CRM linking
- Feedback collection & labeling pipelines
- Source document highlighting and traceability

Automation & Infra

- n8n workflows
- Docker, Git, AWS
- Moodle, WordPress (custom plugin & theme dev)

Leadership & Strategy

- Tech leadership in AI solution delivery (up to 10 people)
- Stakeholder communication, solution scoping
- AI audit and benchmarking methodology

Relevant AI Projects

Project: Self-Learning AI Chatbot for Moodle (RAG + Auto-Retraining)

Designed and deployed a self-updating AI assistant for a Moodle platform, enabling instant, accurate answers across multiple software versions.

- Implemented RAG pipeline with ChromaDB and OpenAI
- Monitored Git for content changes, synced vector DBs, and ensured source-document links with highlighted answer fragments
- Highlighted source phrases within retrieved documents for better explainability
- Reduced support burden by 40%
- Enabled transparent knowledge management with consistent, version-aware responses

Project: Telegram Chatbot Platform with n8n Automation

Built a low-code automation chatbot framework with Telegram + n8n

- Enabled fast configuration of FAQ bots and business logic
- Used in internal tools and pilot client implementations

Project: AI Assistant for Corporate Knowledge Base (Cosmetology Sector)

Developed a fine-tuned AI chatbot trained on proprietary internal documentation to assist medical and cosmetic professionals.

- Extracted structured data and unstructured text from knowledge base and internal manuals
- Implemented RAG architecture with document-source linking and feedback-based improvement loop
- Conducted structured evaluation of LLM responses (accuracy, consistency, source trust)
- Integrated with internal CRM and scheduling systems for unified UX
- Improved consistency of responses and reduced dependency on human consultation by 60%

Project: AI Assistant for Cataract Surgery Patient Education

Designed and implemented an AI assistant to guide patients through the entire cataract surgery journey — from diagnosis to post-op care.

- Automated responses to frequently asked questions regarding procedures, IOL selection, risks, and post-op care
- Integrated into the clinic's website and patient intake flow
- Saved doctors up to 50% of consultation time per patient
- Enabled doctors to increase daily patient volume, resulting in higher revenue without sacrificing care quality

Project: Voice/Text-Based Article Generator for WordPress

Created an end-to-end automated article generation system via Telegram, where users could request posts via text or voice.

Integrated with free Google Gemini 1.5 flash for content generation, and free black-forest-labs/FLUX.1-schnell for image creation, and WordPress API for:

- Auto-drafting posts with titles & descriptions.
- Generating & uploading featured images to the media library.
- Providing a preview link for review before publishing.
- Reduced content creation time by 75% for the editorial team.

Project: PIBSales (<https://pibsales.com/>)

Tech Stack: WordPress, WooCommerce, Laravel, PHP, MySQL, JavaScript, jQuery, TWIG, Webpack, HTML5, XML, CSS3, AJAX, AWS, GIT

Key Contributions:

- Designed and developed a **microservices-based architecture** using **Laravel**, improving system scalability and maintainability.
- Built and optimized custom WordPress/WooCommerce plugins and themes, ensuring seamless integration with business logic.
- Developed a comprehensive ERP integration, enabling real-time product synchronization and automated data exchange.
- Successfully migrated the platform from one ERP system to another, ensuring a smooth transition without service disruptions.
- Implemented REST API connections for seamless communication between eCommerce, ERP, and third-party services.
- Integrated payment gateways, ensuring secure and efficient transactions for online purchases.
- Refactored legacy code, improving performance, maintainability, and adherence to modern development standards.
- Led ongoing support and maintenance, troubleshooting issues, and optimizing database queries for improved performance.
- Configured and deployed infrastructure on AWS, ensuring high availability and scalability.

Project: Defined (<https://www.defined.ai/>)

Tech Stack: PHP, Magento, WordPress, MySQL, JavaScript, jQuery, TWIG, Webpack, HTML5, XML, CSS3, AJAX, Elementor, ACF, REST API, WPEngine, Cloudflare, Magento, Azure, GIT

Tasks performed:

- Led the development team and was responsible for the entire project architecture, ensuring scalability, maintainability, and security.
- Designed and developed custom WordPress plugins and themes, optimizing performance and enhancing functionality.

- Implemented integration with Salesforce
- Successfully integrated Magento, ensuring smooth interaction between eCommerce and content management systems.
- Configured and optimized Cloudflare settings, enhancing website security, caching, and load balancing.
- Set up and maintained REST API connections, facilitating data exchange between multiple platforms.
- Configured and deployed the infrastructure on Microsoft Azure, ensuring high availability and efficient resource utilization.
- Provided ongoing support and maintenance, optimizing database queries and resolving performance bottlenecks.

ACHIEVEMENT

- Managing the development process in a team of up to 10 people
- Mentoring junior developers

EDUCATION

Graduation Year: 2011

Name of the Education Establishment: MIM

Degree (diploma): Marketing / Marketing Management, Bachelor's degree.