Alejandro Alvarez

FULLSTACK DEVELOPER, AI ENGINEER & AI-POWERED CHATBOT ARCHITECT

Medellín, Colombia   +573506217627   *alejandro.auribe1@gmail.com*   _LinkedIn_   _GitHub_   _Portfolio_

PROFESSIONAL SUMMARY

AI Engineer and Fullstack Developer with expertise in the MERN stack, Node.js, RESTful APIs, and React.js. Specialized in Generative AI, building intelligent chatbots and AI-driven solutions that enhance user experience and drive enterprise adoption. Experienced in leading AI-powered projects to improve automation, efficiency, and decision-making. Strong leadership, problem-solving skills, and adaptability. English B2 (certified by EF SET).

PROFESSIONAL EXPERIENCE

FullStack AI Developer | 12/2023 - NOW
Capital Pocket

- Developed AI solutions that automated 35% of manual tasks, reducing processing time by 50% in two companies.
- My work focused on integrating and developing APIs, managing databases, and building microservices, ensuring scalability and optimizing system performance for various web applications.
- As a backend developer, I designed and implemented generative AI solutions, developing chatbots for multiple organizations and automated tools that enhanced user experience using JavaScript and TypeScript.
- Led a development project for a public entity in Colombia, improving operational efficiency across marketing, administrative, and operational departments by implementing agile methodologies such as Scrum.

Backend Developer | 10/2023 - 12/2023
Capital Pocket

- Designed, developed, and integrated robust APIs, ensuring seamless functionality and easy integration with diverse systems.
- Built microservices to enhance scalability, integrating APIs for a smooth user experience.
- Architected a chatbot application following best practices, ensuring clean code, maintainability, and continuous deployment.

Frontend Developer | 07/2022 - 03/2023
No Country

- Developed visually appealing, user-centric interfaces using React and TailwindCSS, delivering functional and engaging applications.
- Implemented UX/UI libraries and React hooks to enhance interactivity and performance.
- Followed best practices for code maintainability and scalability.
- Optimized SEO and integrated Google Analytics to improve visibility and user insights.

Materials Engineer | 11/2021 - 06/2022
Invesa S.A

- Conducted material testing, analysis, and characterization to enhance product performance.
- Collaborated with cross-functional teams to develop innovative materials for specific project requirements.
- Managed supplier relationships to ensure quality materials were procured and met standards.

PROJECTS

Cyberix App
Medellín, *Colombia*

- Developed an intelligent chatbot using Node.js and Langchain, integrated with the WhatsApp Business API to provide automated services such as information retrieval, reminders, content generation, and image processing. Implemented context management with MongoDB for personalized interactions and optimized conversation flows using advanced language models and AI tools.

EDUCATION

Bachelor's degree in Materials Engineer | 06/2016 - 12/2022
University of Antioquia, Medellín, Colombia

- Analysis procedure through reverse engineering in fiberglass-reinforced polyester (FRP) products for composite material characterization.
- Academic average: 4.1
- Professional registration: 011087-0648177 ANT

M. Tech. in Computer Science | 01/2014 - 12/2016
SENA, *Medellín, Colombia*

- Built and optimized a Fullstack app using JavaScript MERN Stack improving performance by 30% with faster load times and a more interactive user experience.
- Developed a Fullstack application with JavaScript, implementing user authentication and real-time data handling, resulting in enhanced application functionality and user engagement.
- Academic average: 4.7

TECHNICAL SKILLS

Languages: English; Upper Intermediate B2, Spanish; Native.
Programming Languages: Javascript, Typescript, Python.
Backend: Node.js, Express.js, Nest.js, MongoDB, MySQL, RESTful APIs.
Frontend: React.js, Vite.js, Next.js.
Cloud & DevOps: AWS, Docker, CI/CD.
AI & Automation: Generative AI, OpenAI API, Deepseek API, Chatbots, Langchain, n8n.
Tools: Trello, Jira, Hugging Face, Excel.