

# Alejandro Alvarez

## AI ENGINEER

Medellín, Colombia

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[LinkedIn](#)

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[Portfolio](#)

## PROFESSIONAL SUMMARY

Full-stack developer specializing in Node.js, RESTful APIs, and React.js, with expertise in generative AI and intelligent system development. Passionate about leveraging AI to create innovative solutions that enhance user experience and seamlessly integrate technology into business processes. Highly adaptable, detail-oriented, and driven by a problem-solving mindset, with strong leadership skills and a commitment to continuous learning in the AI field.

## TECHNICAL SKILLS

**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.

## SOFT SKILLS

Adaptability, Time Management, Critical Thinking, Active Listening, Creativity, Project Management, Decision-Making, Feedback Culture, Proactivity, Empathy, Teamwork, Collaboration Skills.

## PROFESSIONAL EXPERIENCE

### FullStack AI Developer | 12/2023 - NOW

Capital Pocket

- Led a development project for a public entity in Colombia, enhancing operational efficiency across marketing, administrative, and operational departments by implementing agile methodologies such as Scrum.
- Designed and implemented generative AI solutions as a backend developer, specializing in prompt engineering to optimize interactions with language models and develop intelligent chatbots. Utilized JavaScript, TypeScript, and Node.js to create virtual assistants and automation tools that improved user experience.
- Developed and integrated RESTful APIs, managed databases, and built scalable microservices, ensuring high performance, reliability, and efficiency for various web applications.
- Automated 35% of manual tasks, reducing processing time by 50% in two companies through AI-driven process automation and optimization.

### Backend Developer | 10/2022 - 12/2023

Capital Pocket

- Designed, developed, and integrated scalable RESTful APIs, ensuring seamless system interoperability and efficient data exchange.
- Built and optimized microservices architecture, enhancing scalability, reliability, and system performance.
- Engineered a chatbot application using best practices, ensuring clean code, maintainability, and seamless CI/CD.

### Frontend Developer | 05/2022 - 05/2022

No Country

- Developed responsive, user-centric interfaces using React.js and TailwindCSS, delivering engaging and high-performance web applications.
- Implemented UX/UI libraries and React hooks to enhance interactivity, usability, and application efficiency.
- Adhered to best practices for code maintainability, scalability, and modular architecture, ensuring long-term sustainability.
- Optimized SEO strategies and integrated Google Analytics, improving search visibility, user engagement, and data-driven decision-making.

## EDUCATION

### 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

### 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

## LANGUAGES

Spanish - Native

English B2

English B2 - Upper Intermediate (Certified by EF SET)

- Participated in technical meetings with clients, effectively communicating complex concepts in both English and Spanish, ensuring clear understanding and project alignment.
- Regularly attend language exchange discussions and events to further develop my fluency in English, enhancing both professional communication and cross-cultural collaboration.