

# AMYSOJ J A EXSON JOSEPH

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## OBJECTIVE

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I am a full-Stack Developer who has moved into Generative AI, with experience in building complete web applications and smart AI tools. I have worked on both front-end and back-end systems using technologies like Next.js, Node.js, FastAPI, and MongoDB. Lately, I have been focused on AI projects using OpenAI, Langchain, Gemini, and ChromaDB, such as building chatbots, search tools, and AI-based content generators. I enjoy turning ideas into working products and aim to build apps that are fast, easy to use, and helpful for users.

## SKILLS

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Languages	Python, JavaScript, TypeScript
Web Development	HTML, CSS, Node.js, React.js, Next.js, Zustand, FastAPI
AI / ML	Hugging Face, Scikit-learn, ChromaDB, OpenAI, Gemini, Langchain
Databases	MySQL, PostgreSQL, Firebase, MongoDB
Other	Git, Docker, AWS, Excel, Figma, Streamlit

## EXPERIENCE

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Workcohol (Remote)	Chennai, Tamil Nadu
Gen AI Engineer	Dec 2024 - Present

- Developed a **GenAI-powered chat** interface enabling users to query the platform using natural language, improving user onboarding and support
- Integrated **LLMs** using **Langchain**, **Gemini**, and **ChromaDB** to power features like semantic search and document-based Q&A
- Designed and implemented a tool for HR users to **generate job descriptions** using generative AI, reducing manual workload

Full Stack Engineer	Jul 2023 - Dec 2024
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- Built a complete **hiring assessment platform** using **Next.js** for the frontend, **Node.js** for backend APIs, and **MongoDB** for data storage
- Developed an **admin interface** with advanced features including candidate filtering, pagination, and **CSV export** functionality
- Implemented an **anti-cheating mechanism** that detected and recorded instances when users navigated away from the assessment tab
- Built a responsive landing page for an **HR consultancy service**, optimizing SEO and load times
- Integrated job application workflows, authentication, and HR tools, including admin review panels and posting dashboards

GoX.ai (Hybrid)	Chennai, Tamil Nadu
Product Intern	Aug 2022 - Oct 2022

- Contributed to the development of **Two Minute Reports**, a reporting platform enabling users to generate marketing analytics reports.
- Implemented **Pinterest OAuth** authentication to securely connect and authorize user accounts.
- Designed and built backend logic in **Node.js** to retrieve users' ad analytics data via Pinterest's REST API.
- Parsed and formatted the API response to match user-defined query parameters and output structure.
- Ensured seamless integration of report generation with existing boilerplate architecture, improving feature extensibility.

## PROJECTS

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### SQL Query Generator ([View Project](#))

- Developed a **Streamlit web application** that allows users to ask questions in natural language and receive insights from a connected SQL database
- Integrated **LLM-based query generation** to convert user questions into executable SQL queries dynamically
- Executed the generated SQL queries against a live database and captured the structured response
- Sent both the original question and the SQL result back to the LLM to generate a **natural language summary**, delivering human-friendly answers to users

### AI Meeting Scheduler ([View Project](#))

- Created a **GenAI-powered conversational assistant** to handle business queries and **schedule meetings** in real time.
- Designed **conversation flows** to combine business information access with **automated scheduling** logic.
- Improved efficiency in client communication by automating routine tasks through **natural language processing**.

### Myths debunk Chatbot ([View Project](#))

- Built an **AI chatbot** that identifies and debunks health-related myths using **domain-specific prompts**.
- Implemented **conditional logic** to differentiate between **myth-based** and **general queries**, ensuring **targeted engagement**.
- Delivered an **intuitive, responsive experience** to increase user retention and boost brand engagement.

### AI Product Agent ([View Project](#))

- Built a **Conversational AI Agent** using **LangChain**, **FastAPI**, **Next.js**, and **Gemini API** to deliver intelligent, real-time responses to user queries
- Integrated contextual understanding of a product catalog to provide **personalized product recommendations** based on user intent

### IKEA Ship Anywhere ([View Project](#))

- IKEA Ship Anywhere is a web application designed to facilitate IKEA's shipping services
- The platform is built using **Next.js** for its modern, responsive user interface, ensuring a smooth user experience across devices

## EDUCATION

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Bachelor of Engineering in Computer Science, Anna University

2019 - 2023