

Joao Correa

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Education

Simon Fraser University
BASc Computer Science

Apr 2022 - Aug 2025

Work Experience

Full Stack Developer - Xlens ([link](#))

July 2025 - Present

Next.js | TypeScript | AWS EC2 | Python | Docker | Supabase

- Improved face detection accuracy by 4% through advanced image preprocessing, angle detection, face blocking techniques, and model optimization
- Built full-stack REST APIs for photo and metadata management, enhancing processing speed and integration with AWS EC2 infrastructure
- Built parallelized cloud architecture using Python and AWS services, supporting rapid and concurrent photo operations at scale
- Integrated Supabase for real-time data management, storage, and authentication with secure access policies

Web Developer - US CAN Startup ([link](#))

May 2025 - Present

Next.js 15 | TypeScript | Python | AWS EC2 | Supabase | Sanity CMS | RAG | LLM

- Improved website management and performance through SEO optimization and Sanity CMS integration, increasing organic visibility and user retention by 70%
- Developed a custom chatbot system with built-in system knowledge and classification capabilities, implementing similarity matching algorithms, topic-based response generation, and RAG for enhanced knowledge retrieval

Software Engineer - Providence Health Care

Jan 2025 - Apr 2025

AI LLM | Django | Rest API | PostgreSQL

- Eliminated external API dependency costs by architecting a local LLM solution for medical inquiries, ensuring strict data privacy compliance and reducing latency while maintaining response accuracy
- Improved system performance and security through the integration of a REST API in Django, connecting a PostgreSQL backend to a React frontend, organizing data flow, and supporting real-time communication for the full project stack
- Built an LLM-powered ETL pipeline to convert user-entered text into structured JSON, supporting clean data flow between frontend and backend systems
- Collaborated with cross-functional team (frontend, AI, design), conducting weekly client meetings and user research to refine AI model performance and UX
- Developed a conversational AI agent that increased patient interaction by 45%, allowing them to efficiently manage appointments and medications, thus improving user experience and accessibility

Developer Intern - Proa.AI

May 2024 - Dec 2024

Testing | Debugging | CI/CD | Agile methodologies

- Automated chatbot management workflows using OpenAI APIs, improving system efficiency by 62% and reducing manual interventions through selective analysis triggering and conversation windowing
- Used IBM Watson and backend enhancements to improve intent recognition, Natural Language Understanding (NLU), and dialog management
- Boosted system reliability by 30% through automated E2E testing, identifying potential failure points, simulation of real-world scenarios, and implementing debugging strategies to ensure production stability
- Improved conversational accuracy by 12% through rigorous QA testing, validating expected outputs, fixing errors, documenting results, and providing feedback to the development team to improve the overall user experience

Projects

WatchHive - Movie and Series Track Platform ([link](#))

2024 - Present

Next.js 16 | TypeScript | Supabase | PostgreSQL | JWT Authentication | TMDB API | Tailwind CSS

- Implemented JWT authentication with secure HTTP-only cookies and session management
- Developed vector-based recommendation algorithms with multi-criteria filtering for personalized content discovery
- Built database architecture for user tracking, watched status, wishlist, and collaborative lists with optimized queries
- Optimized performance through caching strategies and continuous improvement of recommendation accuracy

Skills

Programming: Java, C/C++, C#, Python, SQL, NoSQL, CSS, JavaScript, HTML, TypeScript

Frameworks: React, Next.js, WebSockets, MongoDB, PostgreSQL, Django, FastAPI, Sanity CMS

AI/ML Technologies: RAG, LLM

Developer Tools: Git/Github, Docker, Tailwind, Linux, Vercel, AWS, Azure, Supabase, Postman