

# Joao Correa

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## Education

**Simon Fraser University**, Burnaby, BC  
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 and parallelized cloud architecture using **Python** and **AWS EC2** services with **Docker** imaging and compose, enhancing processing speed, and supporting rapid and concurrent photo operations at scale
- Implemented **AWS S3** for image storage with signed URL retrieval on Database, achieving **50% reduction in upload and download times** through optimized access patterns

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

May 2025 - Present

Next.js 15 | TypeScript | Python | SEO | 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