

# Joao Correa

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## Education

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### Simon Fraser University - BASc Computer Science

Jan 2020 - Aug 2025

- Algorithms, Data Structures, OOP, Web Development, Databases, Probability, Statistics, Linear Algebra, SDLC

## Work Experience

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### Technical Lead Developer - US CAN Startup ([link](#)) | Xlens ([link](#))

May 2025 - Present

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

- UCS: Improved main website visibility, retention, and performance by 70% through SEO and scalable software architecture
- Xlens: Built full-stack REST APIs for photo and metadata management, enhancing processing speed and integration with AWS EC2 infrastructure
- Engineered 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

### Software Engineer - Providence Health Care

Jan 2025 - Apr 2025

AI LLM | Django | Rest API | PostgreSQL | Waterfall SDLC

- Reduced costs by 100% by deploying a local LLM to handle medical inquiries, ensuring faster processing times and data privacy. This enhanced user experience, providing security of data and fast responses
- 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 enabling real-time communication for the full project stack
- Built an LLM-powered ETL pipeline to convert user-entered text into structured JSON, enabling clean data flow between frontend and backend systems
- Enhanced project delivery by implementing Waterfall SDLC, conducting weekly client meetings and user research
- 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

- Increased system efficiency by 62% by automating chatbot management, identifying patterns to improve AI accuracy and minimize manual interventions, utilizing OpenAI model to monitor performance, and analyze response times
- Leveraged 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, ensuring expected outputs, fixing errors, documenting results, and providing feedback to the development team to improve the overall user experience

## Projects

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### Restaurant Rating Interface ([link](#))

Oct 2023 - Nov 2023

SQL | Python

- Developed an intuitive Yelp-like database system with SQL and Python, implementing hierarchical navigation for seamless user interaction
- Guaranteed data consistency and reliability by crafting a robust backend system with SQL support, carefully constructing triggers to validate data integrity

### Fifteen Puzzle Game and AI Solver

Jan 2023 - Apr 2023

Algorithms | Java

- Enhanced the puzzle-solving capabilities of an AI, integrating a variety of heuristic search strategies for a fifteen puzzle game using Java for terminal-based gameplay
- Reduced search time by 80% by implementing search algorithms and a system with A\* and IDA (Iterative Deepening A\*) search

## Skills

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

**Frameworks:** React, Next, MongoDB, Django, REST API, FastAPI

**Developer Tools:** Git/Github, Docker, Tailwind, Linux, Vercel, Azure, Postman, VSCode