

# Bio Samir Gbian

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## EDUCATION

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### University of Montreal

*Bachelor of Science in Mathematics and Computer Science (Data Science)*

Montreal, Canada

Aug. 2022 – May 2025

- Relevant Coursework: Software Engineering, Data Structures & Algorithms, Object-Oriented Programming, Database Design, Software analysis and design

## EXPERIENCE

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### Full-Stack Software Engineer

*BIASafe AI*

Jan. 2026 – Apr. 2026

Montreal, Canada

- Built data-intensive React UIs using **Tailwind CSS** and **ShadCN**, automating end-to-end type safety with the FastAPI backend via Orval, TypeScript, and Zod.
- Developed RESTful API endpoints for quantitative strategy execution and implemented complete backend/frontend authentication and role-based authorization using WorkOS.
- Configured strict CI/CD deployment gates via GitHub Actions to validate generated OpenAPI schemas against version control, preventing production mismatches.
- Introduced Graphite workflows to streamline the team's management of complex, stacked pull requests and merge queues.
- Leveraged agentic AI workflows and tools like **Claude Code** to rapidly prototype features and accelerate autonomous development cycles under tight deadlines.

## PROJECTS

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### Legal AI RAG Assistant | *React, n8n, Supabase Vector Store, LLM APIs*

Nov 2025 – Jan 2026

- Architected a full-stack GenAI application by connecting a frontend UI to a custom n8n backend via webhooks, enabling real-time user interaction with the AI assistant.
- Engineered an automated Retrieval-Augmented Generation (RAG) pipeline in n8n to orchestrate LLM API calls and process complex, domain-specific legal queries.
- Integrated Supabase as a vector database to manage high-dimensional data embeddings, optimizing document retrieval and context engineering for highly accurate responses.

### Multi-Modal Travel Reservation System | *Java, UML, Visual Paradigm, OCL*

Jan. 2025 – May 2025

- Architected and implemented a comprehensive reservation system supporting air, naval, and rail travel using advanced software engineering principles including design patterns, proper coupling/cohesion, and state chart modeling
- Designed complex domain models with UML class diagrams, sequence diagrams, and package diagrams following industry best practices
- Implemented OCL constraints for business logic validation, ensuring data integrity across multiple transportation modes
- Applied SOLID principles and design patterns (Creator, Expert, Low Coupling) to create maintainable, scalable code architecture

### Job Tracker AI | *React, Next.js, PostgreSQL, OpenAI API, Supabase*

Jun. 2024 – Present

- Built an intelligent job application tracking web application with automated email parsing and classification using OpenAI GPT models
- Implemented OAuth 2.0 authentication with Google APIs for secure email access and user management
- Architected an AI-powered SaaS web application using **Next.js with API routes** to handle server-side logic for automated email parsing via OpenAI models.
- Designed scalable backend infrastructure with a PostgreSQL database, achieving 95% classification accuracy for application status updates.

## TECHNICAL SKILLS

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**Languages:** Python, TypeScript, JavaScript, Java, HTML/CSS

**Frameworks & Libraries:** Next.js, React, FastAPI, TailwindCSS, ShadCN, Zustand, React Query, Node.js

**Tools & Technologies:** Git, PostgreSQL, Supabase, n8n, Firebase, Docker

**Software Engineering:** Agentic Workflows, System Architecture, Design Patterns, REST APIs, Testing