

Guillaume Bouchard

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SUMMARY

Full-stack developer with AI web solutions expertise, known for clean architecture, scalable systems, and strong problem-solving, organizational skills, and attention to detail across frontend and backend.

EDUCATION

College Diploma, Computer Programming and Analysis

Algonquin College • Ottawa, ON • April 2025 • 3.93

- Focused on Full-stack product design and development using Spring Boot and React. Gained experience in building scalable systems with microservices and modern software architecture.

Bachelor of Science, Honours Physics (Incomplete)

Minor in Computer Science • University of Ottawa • Ottawa, ON • 2023 • 9.00 / 10

- I completed coursework in physics with a minor in computer science. Studied Java and Python programming, data structures, and discrete mathematics, linear algebra, and calculus.

Sciences Informatiques Mathématiques (Incomplete)

CEGEP de Sherbrooke • Sherbrooke, QC • 2022

- Completed coursework in C++ programming, object-oriented design, and mathematical foundations. Focused on problem-solving, algorithmic logic, and software structure fundamentals.

EXPERIENCE & PROJECTS

AI Workshop Series

Freelance • April 2025 - Present

- Created AI agents using A* pathfinding, minimax with alpha-beta pruning, and probabilistic inference.
- Developed visual simulations in Pygame to demonstrate AI agent behaviours.
- Continuously maintained and expanded by integrating new AI agents and implementing additional features.

Nexa

Freelance • February 2025 - April 2025

- Built an MVC-based productivity platform with AI task prioritization, contributing to front-end and back-end web architecture.
- Implemented secure authentication (JWT, OAuth 2.0, CSRF) and robust backend architecture.
- Designed responsive frontend dashboards using React.js and TailwindCSS .

Husband 4 Hire

Freelance • January 2025 - April 2025

- Developed a full-stack web application with JWT-based authentication and role-based access control.
- Designed and optimized RESTful APIs and SQL queries for robust data handling and backend performance.
- Implemented private React routes and AuthContext to manage user sessions and protect frontend routes.
- Collaborated in Agile sprints and feature planning, applying strong project management skills and cross-functional communication.

CERTIFICATIONS

CS50's Introduction to Artificial Intelligence with Python

HarvardX / edX • 2025

- Covers foundational AI concepts such as search algorithms, knowledge representation, probabilistic reasoning, optimization, machine learning, and natural language processing (NLP) using Python.

SKILLS

- **Programming Languages:** JavaScript, Go, Java, Python, C++, SQL
 - **Frontend Development:** HTML, CSS, JavaScript, React, TailwindCSS
 - **Backend & Web Architecture:** SpringBoot, Gin, Node.js, RESTAPIs, MVC Architecture
 - **Databases:** PostgreSQL, MySQL, Oracle
 - **Tools & DevOps:** GitHub, Docker, Maven, IntelliJ, VS Code, SQLPlus
 - **Soft Skills:** Problem-solving, project management, verbal communication, attention to detail, bilingual(English & French)
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