

Guillaume Bouchard

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SUMMARY

Full-stack developer known for clean architecture, scalable systems, strong problem-solving, organizational skills, and attention to detail, and full bilingual fluency in English and French.

EDUCATION

College Diploma, Computer Programming

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

- Completed coursework in physics with a minor in computer science. Studied Java and Python programming, data structures, 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

Max Auto Detailing

Freelance • April 2025 - Present

- Built a full-stack web application for managing car detailing services, featuring appointment booking, vehicle-specific pricing, and client history tracking.
- Developed the frontend in Angular 16 with TailwindCSS, implementing mobile-first responsive design, route guards, and multilingual support via Transloco.
- Engineered a modular backend using NestJS, and PostgreSQL, with JWT authentication, clean MVC architecture, and strict DTO validation.
- Implemented full-stack testing with Jest, Supertest, PostgreSQL containers (backend) and Karma, TranslocoTestingModule (frontend).
- Designed and executed a CI/CD pipeline using GitHub Actions, enforcing linting, full test coverage, and production builds across frontend and backend before merging any changes.

AI Gallery

Freelance • April 2025 - Present

- Developed a polished, interactive web app showcasing core AI techniques such as Minimax and Alpha-Beta Pruning through real-time visualizations and heatmaps.
- Designed intuitive UI/UX to make complex decision-making algorithms visually engaging and easy to understand.
- Actively maintained as an open-source project, with ongoing additions of new AI modules, documentation, and performance improvements.

Nexa

Algonquin College • January 2025 - April 2025

- Built an MVC-based productivity platform, contributing to front-end and back-end web architecture.
- Implemented secure authentication (JWT, OAuth 2.0, CSRF) and robust backend architecture.

CERTIFICATIONS

CS50's Introduction to Artificial Intelligence with Python

HarvardX / edX • 2025

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

SKILLS

- **Programming Languages:** JavaScript, TypeScript, Go, Java, Python
- **Frontend Development:** React, Next.js, Angular, TailwindCSS
- **Backend & Web Architecture:** SpringBoot, Gin, Nest.js, REST APIS, MVC Architecture
- **Databases:** PostgreSQL, MySQL, Oracle, MongoDB
- **Tools & DevOps:** GitHub, Docker, Kubernetes, Terraform, VS Code, SQLPlus
- **Soft Skills:** Bilingual (English & French), Problem-solving, project management, verbal communication, attention to detail