Guillaume Bouchard

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Eligible for Government of Canada security clearance

SUMMARY

Software developer with cybersecurity expertise. Experience building scalable, secure applications using React, Angular, NestJS, and Go. Skilled in DevOps practices and threat analysis.

EDUCATION

Algonquin College   Ottawa, ON
College Diploma   April 2025
Computer Programming - GPA: 3.91/4.0; Dean's List 2024-2025
Relevant Coursework: Enterprise Programming, Advanced Database, Software Development Project, Micro Services

University of Ottawa (Incomplete)   Ottawa, ON
Bachelor of Science   Sept 2022 - Oct 2024
Major in Physics; Minors in Computer Science - GPA: 9.4/10.0; Dean's List 2022-2023
Relevant Coursework: Data Structures, Discrete Mathematics, Linear Algebra, Calculus

SKILLS

Programming Languages: JavaScript, TypeScript, Go, Java, Python
Web Frameworks: React, Next.js, Angular, TailwindCSS, SpringBoot, Gin, Nest.js
Databases: PostgreSQL, MySQL, Oracle, MongoDB
ML/AI Tools: NumPy, Pandas, MatPlotLib. Scikit-Learn, TensorFlow, PyTorch
DevOps: GitHub, Docker, Kubernetes, Terraform
Security Tools: Wireshark, Nmap, OpenEDR, X-Threat
Soft Skills: Native French with full professional fluency in English, Problem-Solving, Communication, Attention to Detail

CERTIFICATIONS

IBM AI Engineering Professional Certificate   Online
IBM/Coursera   Ongoing
- Applied supervised/unsupervised machine learning techniques using Python, scikit-learn, and pandas
- Built and trained deep learning models using Keras framework and neural network architectures

IBM Cybersecurity Analyst Professional Certificate   Online
IBM/Coursera   June 2025
- 14-course program: cybersecurity architecture, compliance framework, threat hunting, cryptography, incident response
- Specialized training in generative AI applications for cybersecurity and penetration testing
- Capstone project: Comprehensive analysis of SolarWinds supply chain attack (APT29) affecting 18,000+ organizations

EXPERIENCE & PROJECTS

Max Auto Detailing - Client Project for a Live Car Detailing Business   May 2025
Tools: Angular 16, TailwindCSS, NestJS, PostgreSQL, JWT, Jest, Supertest, Karma, Transloco, Docker, GitHub Actions
- Built secure full-stack application managing customer data, appointment booking, and automated messaging
- Developed responsive Angular frontend with route guards, multilingual support, and secure authentication
- Engineered scalable NestJS backend with PostgreSQL, JWT authentication, and clean MVC architecture
- Achieved 95%+ test coverage with comprehensive testing suite (Jest, Supertest, Karma)
- Implemented CI/CD pipeline with Docker, GitHub Actions, automated linting, and security scanning

AI Gallery - https://github.com/GBonkers/ai-gallery   April 2025
Tools: Next.js 13, React, TypeScript, PostgreSQL, Prisma, Tailwind CSS, GitHub Actions, Vercel
- Developed interactive web application showcasing advanced AI algorithms including Bayesian networks and inference engines with real-time data visualization
- Implemented complex mathematical algorithms in TypeScript with optimized browser performance and intuitive UI/UX design for non-technical user
- Actively maintained open-source project with documentation, feature updates, and community contributions