Guillaume Beaulé

4th Year Computing & Financial Management, University of Waterloo. English–French Bilingual.
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EDUCATION

University of Waterloo — Computing and Financial Management (2020–2025)

- Coursework in Computer Science and Finance (Accounting, Derivative pricing, Statistics).
- Built compiler for a subset of C, developed MIPS linker/loader, and Chess engine in C++.
- Implemented ML models to predict stock returns, back-tested trading strategies using Python, and analyzed portfolio performance.

EXPERIENCE

Full-Stack Software Developer — Relay Financial (Sep–Dec 2024)
- Built an accounting page in React used by 200+ companies to manage their transactions.
- Developed new design system components; updated old components on existing pages.

Full-Stack Software Developer — Quota (Jan–Apr 2024)
- Implemented a long-running job framework with checkpointing on AWS using DynamoDB.
- Created custom financial-query language using Prisma and developed React components.

Software Developer — Employment and Social Development Canada (Aug–Dec 2022)
- Streamlined software modernization by automating creation of JSON schemas.
- Automated Azure DevOps via PowerShell; created a JavaFX application to convert UML data into Markdown.

Full-Stack Software Developer — Purolator (Jan–Apr 2022)
- Built React frontend and JavaScript backend on AWS for a B2B package-tracking solution.
- Designed, implemented, and deployed shared web components and tracking/info APIs.

Backend Developer — Society for Academic Freedom and Scholarship (2017–2018)
- Secured payment processing and built a PHP and MySQL backend to manage articles.

SKILLS

- **Languages & Frameworks:** JavaScript, TypeScript, C, C++, C#, Java, Python, React, Node.js
- **Finance & Data:** Accounting, Pricing Models, Excel, Probability, Statistics, Data Analysis

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PERSONAL PROJECTS

- Created an app to control PowerPoint presentations from your phone.
- Developed a color QR code scanner in C++ based on JAB Code standard.
- Built a website + app to transfer files offline using QR codes.
- Created an offline reverse geocoder with localization support.
- Made web app to display every empty room on the University of Waterloo campus.