

Objective

Software engineer with 3 years' experience and a high-scoring graduate from the mathematics and computer science program at a top Canadian university. Interest in quantum computing and quantum machine learning.

Professional Experience

Quantum Algorithms Researcher Toronto, ON	University of Toronto	Sep 2025–present
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- Conducting research on quantum cryptographic and machine learning algorithms.

Technologies: Python, NumPy, SciPy, Qiskit

Software Engineer Toronto, ON	Relasoft Solutions	Sep 2024–Sep 2025
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- Full-stack developer role shipping legacy pharmaceutical software to medium-scale clients.
- Architected software and data solutions from scratch for large-scale pharmaceutical clients.

Technologies: VS Studio, C#, SQL, MS SSMS

Software Engineer Toronto, ON	Payquad Solutions	Sep 2023–Sep 2023
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- Full-stack role developing web and mobile apps for property management companies in Toronto.

Technologies: PHP/Laravel, Angular, Capacitor for mobile (iOS and Android).

Software Engineer Intern London, UK	PE Safe	Sep 2022–Sep 2022
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- Cloud computing role architecting cloud solutions for large-scale clients.

Technologies: Python, AWS, Docker, Kubernetes.

Education and Certifications

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| • B.Sc. Mathematics & Computer Science , University of Toronto | 2019–2023 |
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Accolades: Dean's List; CS transition stream top scorer (96%)

Notable Projects

- **Biometric Sign-on** - implemented biometric sign-on within Payquad's mobile apps, speeding up QA testing and significantly improving user experience . **Angular, JavaScript/TypeScript, Capacitor**
- **Compliance support** - architected a data solution supporting pharmaceutical companies' compliance with new drug reporting requirements in the US. **VS Studio, SQL, MS SSMS.**
- **OWL** - AWS solution for large-scale client tracking, logging, and notifying of high-security role assignments by services and users within AWS. **AWS: IAM, Lambda, CloudWatch, EventStream**
- **RoutOp** (github.com/laviealon/RoutOp) - On a team of 5, designed and implemented an intelligent schedule and calendar organizer which factors in your priorities. **Java, HTML/CSS/JS, MySQL, Spring, SpringBoot**