

# Christine Trac

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2.5+ YOE in software development — see my LinkedIn for full employment details

## EDUCATION

### University of Waterloo

2024

Bachelor of Applied Science — Honor's Computer Engineering (Co-operative Program)

**Coursework:** Algorithm Design & Analysis, Compilers, Databases, Computer Networks, Real-Time Operating Systems, Systems Programming & Concurrency, Data Structures & Algorithms, Fundamentals of Programming

## WORK EXPERIENCE

### Amazon – Software Development Engineer

Jul 2024 – Present

AWS (S3, DynamoDB, Glue, Lambda, Step Functions, IAM, CDK, Athena), Java, Typescript, Apache Spark, Scala, SQL, Python

- Managing internal accounting booking software for Amazon accountants and business intelligence teams, including an Amortization Calculation Engine and a Unified Subledger system that processes millions of accounting entries.
- Engaging in 24/7 Ops on-call rotations, leveraging logs, monitoring tools, and Standard Operating Procedures (SOPs) to resolve business-critical issues in financial booking systems, consistently meeting stringent service level agreements (SLAs).
- Contributed to the development of complex AWS architecture including multiple Step Functions, batch jobs, ETL Spark jobs, and business intelligence tools to automate big data processing and monthly report generation for Amazon Prime accountants.

### Amazon – Software Development Engineer Intern

May – Aug 2023

AWS (S3, Glue, Step Functions, IAM, CDK, Lambda, SNS), Java, Typescript, Apache Spark, Scala

- Leveraged object-oriented programming principles in Java to design and develop a scalable big data service to efficiently process and transform Amazon's billions of financial transaction entries for reconciliation in a unified subledger system.
- Architected a distributed data processing pipeline, allowing parallel processing of transactions by leveraging big data technology like Spark and AWS Glue, and reducing the time required for data reconciliation.

### Primer AI – Frontend Engineer Co-op

Jan – Apr 2022

React, Redux, React Query, Typescript, CSS

- Owned end-to-end development and unit testing of features for an NLP platform in an agile sprint environment.
- Collaborated with UX designers and developed accessible styled components for the company's React UI component library, enabling integration of inclusive and WCAG 2.1 compliant design principles into the company's various products.

### Apple – UI Engineer Intern

Jun – Aug 2021

React, Redux, JavaScript, CSS

- Conducted a comprehensive accessibility audit on a user management platform in App Store Connect, identifying and categorizing critical accessibility issues and using it to significantly enhance user experience for users with visual impairments and other accessibility challenges that rely on assistive technology such as keyboard navigation and screen readers.
- Re-developed the user management platform in App Store Connect with the findings from the accessibility audit, implementing new React design patterns and WCAG 2.1 guidelines, improving internal compliance from 50% to 90%.

### George Brown College – Full Stack Engineer Co-op

Sep – Dec 2019

SQL (Postgres), Java, Grails, Groovy, Apache Solr, JavaScript, HTML, CSS

- Implemented the search engine of an internal staff portal using Apache Solr, improving information discovery and retrieval.
- Facilitated efficient data handling and optimized data retrieval using complex SQL queries and database interactions for diverse stakeholders of a large college, including 85,000+ students and 3,000+ faculty members.
- Designed and developed a dynamic MVC web application to streamline applicant intake for the college's admissions process.

## SKILLS

**Languages:** Java, Python, Typescript, JavaScript (ES6+), C++, C, SQL, Scala, HTML, CSS, Groovy, Rust, Liquid

**Technologies/Frameworks:** AWS Cloud Services (EC2, IAM, DynamoDB, S3, Glue, CDK, Lambda, Step Functions, Athena, Batch, CloudWatch, CloudFormation, EventBridge, SNS, SQS, Quicksight), Apache Spark, React, Redux, React Native, Node.js, Postgres, GraphQL, Rest APIs, jQuery, Grails, Apache Solr, Git, Figma