

Christine Trac

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WORK EXPERIENCE

Amazon, Software Engineer

May – Aug 2023

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

- Leveraged **object-oriented programming principles** and Java to design and develop a **scalable big data service** to efficiently process and transform all of Amazon's millions 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

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 seamless integration of inclusive design principles into the company's various products.
- Led efforts to **optimize and refactor** existing code to use the UI component library, resulting in the platform being **WCAG 2.1 compliant** and having improved maintainability for future feature development.

Apple, UI Engineer

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**.
- Improved the overall web accessibility compliance rating from **50% to 90%**, as evaluated by internal accessibility evaluation tools.

George Brown College, Full Stack Engineer

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.

EDUCATION

University of Waterloo

Present – Apr 2024

Candidate of BSc. Computer Engineering

Courses: ECE406 Algorithm Design & Analysis, ECE351 Compilers, ECE356 Databases, ECE358 Computer Networks, ECE350 Real-Time Operating Systems, ECE252 Systems Program & Concurrency, ECE250 Data Structures & Algorithms, ECE150 Fundamentals of Programming

PROJECTS

Animal Crossing New Horizons Friendship Tracker

React Native, JavaScript, Rest APIs, CSS

- Mobile companionship app for calculating and keeping track of friendship levels with villagers in popular game Animal Crossing™.

SKILLS

Languages: Java, Python, JavaScript, Typescript, C++, C, SQL, Rust, Swift, Scala, C, Groovy, Liquid, HTML, CSS

Technologies: React, Redux, React Native, AWS (S3, Glue, CDK, Lambda, SNS, Step Functions), Apache Spark, Node.js, Postgres, jQuery, SASS, Grails, Apache Solr, Git, Figma