Jasmine Sun

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Education

University of Waterloo Sep 2020 – Apr 2025
Systems Design Engineering (BASc) *Waterloo, Canada*
Relevant courses: Data Structures and Algorithms (C++), Digital Computation (C++)

Technical Skills

Languages: JavaScript/TypeScript, Java, C++, C#, Go, Python, Kotlin, SQL, HTML, CSS/SCSS
Frameworks/Libraries: React, Angular, .NET, JUnit, Moq, Bootstrap, Espresso, Appium
Developer Tools: AWS, Docker, Git, Snowflake, GCP, New Relic, DevSpaces, Node.js, Argo CD, Jenkins, TeamCity

Experience

Software Engineering Intern May 2023 – Aug 2023
Lacework *Mountain View, United States*
- Spearheaded Markdown rendering in Lacework's Alerts activity log UI, using **React**, **Typescript**, and **Java**, and CLI with **Go**, yielding a **20%** reduction in investigation time and boosting client team collaboration by **65%**
- Introduced artifact attachments to the activity log using **Java** and **Go**, entailing the development of **4** new API endpoints and a comprehensive data model overhaul, including the migration to efficient storage via **Amazon S3**
- Collaborated with product, UX, user research, and development teams across Lacework to iterate and integrate requested functionalities into designs

Full-Stack Developer Jan 2023 – Apr 2023
Varicent *Toronto, Canada*
- Developed comprehensive change tracking for **8** key application areas using **TypeScript**, **PostgreSQL**, and **AWS** services, increasing data capture by **33%** and enhancing product reliability
- Built a **React** interface for changing plan start dates, enabling reuse and averaging **48** hours saved per change
- Resolved **12** SEV1 issues within a sprint, leveraging **AWS AppSync** and **CloudWatch** to optimize data import

Software Engineering Intern May 2022 – Aug 2022
Xero *Toronto, Canada*
- Created a system in **C# .NET** to enable **3 million+** users to convert bank statement PDFs to CSV with a click
- Leveraged OCR and wrote **2k+** lines of extractor logic to increase bank statement type extraction success by **65%**
- Programmed **40+** Moq/NUnit unit and integration tests for **100%** test coverage, deployed via TeamCity
- Saved **10** developer-hours/week by creating a New Relic NRQL dashboard to detect production user issues
- Used **Docker** and **AWS** to create containers and images for cloud application deployments
- Extended Xero's API to include exception handling for cryptographic errors and **Redis** dependency exceptions

Web and Mobile Developer Sep 2021 – Dec 2021
Rich Media *Toronto, Canada*
- Crafted 3 customer-facing financial calculator webpages for banks, averaging **25%** higher user engagement
- Produced AODA/WCAG 2.0 compliant marketing landing pages in **JavaScript**, generating **$100,000** in revenue
- Fixed **80+** critical bugs in **JavaScript/TypeScript** and **Angular** codebase that affected **10,000+ users**
- Coded **JavaScript** component libraries for screen readers, reducing accessibility support tickets by **40%**
- Integrated **JUnit** testing and input validation checks to improve test coverage by more than **40%**

Test Automation Engineer Jan 2021 – Apr 2021
Ritual *Toronto, Canada*
- Led QA efforts for user-facing projects, catching **150+** bugs that would have impacted **1 million+** users
- Engineered **50%** of Android automated test cases in **Kotlin**, Appium, and Espresso for the build sanity suite
- Executed endpoint testing using **BigQuery** and **MySQL**, resulting in a **40%** reduction in data processing errors

Projects

Themeify Dec 2021 – Present
- Built a personalizable lyric visualizer allowing users to experience Spotify's catalogue of over **70 million** songs
- Utilized **React** for state management of search results and songs, and **Bootstrap** to customize the UI
- Created HTTP requests for token-based authentication and displayed relevant **JSON** data using Axios