

Diane Ding

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EDUCATION

University of Waterloo
Honours Bachelor of Computer Science, Data Science

Sep. 2018 – May 2023
Waterloo, Canada

SUMMARY OF QUALIFICATIONS

- Skilled in programming languages including **Java, React, TypeScript**, C/C++, Python, Ruby, and SQL. Adept at UI design using toolkits such as JavaFX, Ruby, and Jetpack Compose.
- Experienced with cloud services such as **AWS CloudFormation, API Gateway, and Lambda**, enhancing application scalability and deployment efficiency.
- Proficient in advanced OOP practices, design patterns, and database management, contributing to robust system architecture.
- Demonstrated strong problem-solving initiative, consistently driving improvements in system design and development processes.

WORK EXPERIENCE

Amazon
Software Development Engineer

Aug. 2023 – Present
Vancouver, Canada

- Drove the architecture and implemented a comprehensive logging and traceability library with multiple AWS services and tools. The library reduced developers' time by 50% with comprehensive log visualization and cross-account observability.
- Resolved content delivery network authentication issues by integrating Service Worker into a Ruby monolith application, enabling full access for its mobile users.
- Delivered AWS CDK template packages, increasing cross-team deployment efficiency and reducing integration issues by standardizing package usage.
- Conducted design reviews for peer engineers, providing actionable feedback that optimized system integration performance.
- Ensured stable service maintenance during on-call shifts, resolving critical incidents with a 10-minute average response time.
- Created Java APIs for engineers to improve cross-application communication, enhancing data exchange.
- Improved application performance by coordinating across teams to upgrade core dependencies for a Ruby monolith application.

Dolby Laboratories Inc.
Software Quality Assurance

May 2021 – Sep. 2021
Shenzhen, China

- Created and executed automation test plans, cases, and scripts to verify collaborative products, reducing testing time and identifying critical defects.
- Used MATLAB Vision Toolbox to track testing video frames and generated detailed visual reports, enabling the team to quickly identify and resolve frame rate inconsistencies.
- Developed Python scripts to automate report generation from raw datasets, reducing manual reporting time, and improving accuracy in data analysis.