

JUSTIN LUI

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EDUCATION

BCom, Computer Science and Business (BUCS) · University of British Columbia Expected May 2024
Key CS (CPSC) Courses: 416: Distributed Systems, 317: Internet Computing, 404: Advanced Databases
Key Business (COMM) Courses: 436: MIS Analysis and Design, 438: MIS, 491: Strategic Management

TECHNICAL SKILLS

Programming Languages: Java, TypeScript, Go, Python, Ruby
Tools and Frameworks: AWS, React, Spring MVC, Docker, Ruby on Rails

WORK EXPERIENCE

Amazon Vancouver, BC, CAN
Software Development Engineer Intern May 2023 - Sept 2023

- Presented **3 high- and low-level designs** for a data pipeline and visualization tool **within scoped time**, despite changing requirements. Validated user requirements and use-cases through direct user engagement.
- **Implemented** a stream processing data pipeline that scales to handle over **16 000 transactions per second** using AWS Kinesis, S3, ECS, DynamoDB and a micro-service architecture.
- Delivered a visualization tool for the pipeline data in **75% scoped time** using AWS Athena and Spring MVC.
- Re-designed a service to save **over \$100k per month** on cloud compute cost as a **side project**.
- Minimized on-call tickets by enhancing automation workflows and implementing the **Strategy** pattern for efficient ticket handling refactoring.
- Committed code and completed ramp-up tasks within the **first week of returning** to my previous team.
- **Went beyond intern responsibilities** and fixed out-of-project scope issues for an internal search tool API.

Wun2Free Entertainment (Richmond Night Market) Richmond, BC, CAN
Assistant Manager Oct 2019 - Sept 2023

- Reduced system latency by **99% (3 minutes to 1 second)** by **single-handedly** developing a full-stack app with React, Go, AWS Lambda, API Gateway, and Google Sheets.
- Minimized HR costs by **99% (\$2000 to \$15)** by streamlining operations into a single Google Sheets-based system, automating on-boarding, scheduling, record-keeping, and payroll.
- Optimized inventory ordering by **50% (40 to 20 hours)** by creating an Google Sheets automated database.

Amazon Vancouver, BC, CAN
Software Development Engineer Intern May 2022 - Aug 2022

- Presented **high- and low-level re-designs** of a micro-service, replacing AWS SQS with Kinesis as a project.
- **Delivered** my project using Java, and enhancing scalability by abstracting classes into reusable components adhering to **SOLID object-oriented** principles.
- Revamped and deployed a micro-service capable of processing over **18,000 transactions per second** by optimizing S3 storage handling.
- Simplified service infrastructure, which **reduced the lines of code by 30%** using Docker templates.

Diligent Vancouver, BC, CAN
Software Engineer Co-op Jan 2022 - May 2022

- **Delivered multiple full-stack** features requested by high-profile customers. Organized meetings, created documents and stories, and designed and implemented features using React, Ruby on Rails, and Terraform.

PROJECTS

LetMeIn UBC: Helping UBC students register for courses by notifying them when there's an available seat - **for free!** I was the project lead and developer. Built using TypeScript, React, AWS Lambda, DDB, and API Gateway.