Billy Liu

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EXPERIENCE

Nordstrom
Seattle, WA

Software Engineer II
Dec 2020 - Present

- Build and deploy streaming infrastructure to process tens of thousands of daily customer transactions using **Java** with **Kafka**, reducing marketing profile generation time by 35%
- Design and implement React app for detecting company-wide data redundancies using **TypeScript** with **React**, **Redux**, and **D3.js**, decreasing **AWS S3** and **DynamoDB** costs by 18%
- Lead design review to update all Nordstrom customer marketing profiles, including engineering, security, devOps, and monitoring
- Lead demos, gather feedback from stakeholders, lead creation and prioritization of sprint tasks, and mentor interns and new team members

Software Engineer I
Sept 2018 - Nov 2020

- Full-stack development of web application for monitoring organization-wide data quality using **JavaScript** with **Angular**, decreasing incident response time by 39%
- Implemented RESTful APIs using **Python** with **Django**, querying from **MySQL** databases and **Apache Hive** data warehouses
- Lead migration process to update logging, alerting, metrics collection systems using **Splunk**, **DataDog**, and **New Relic**
- Deployed and monitored systems using **Kubernetes**, **Docker**, **Gitlab CI/CD**, and **AWS EC2**

Software Engineer Intern
Jun 2018 - Aug 2018

- Responsible for sunset of stand-alone Java application to integrated **JavaScript** system using **Elasticsearch**
- Implemented integration tests into **Jenkins CI/CD** pipeline using **Python** with **Selenium**, increasing test coverage by 24%
- Prototyped self-checkout service using RFID hardware, **JavaScript** with **React**, **MongoDB**, and mobile payment technologies; deployed using **Docker** on **AWS ECS**

AnalysisWorks
Vancouver, BC

Software Developer Co-op
May 2016 - Dec 2016

- Designed and built data-visualization components for hundreds of health-care providers using **JavaScript** with **jQuery**, **HTML**, and **CSS**
- Implemented web application backend with **C#**, **.NET** and **SQL** using the MVC design pattern
- Integrated automated checks for data integrity using **Python** and **PowerShell**, eliminating need for manual testing

SKILLS

Programming Languages	Java, JavaScript/TypeScript, Python, C/C++, C#, R, SQL, HTML, CSS
Frameworks & Libraries	React, Redux, Angular, D3.js, Express/Node.js, Django, Spring
DevOps	AWS, Gitlab CI/CD, Docker, Kubernetes, New Relic, Splunk, SSL/TLS

EDUCATION

University of British Columbia
Vancouver, BC

BSc. Computer Science & Statistics (Co-op Program)
May 2018