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 BSc. Computer Science & Statistics

Vancouver, BC May 2018