Benjamin Teo

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Professional Profile

Software engineer with experience in designing and implementing full-stack features for web applications that leverage AWS services. Seeking opportunities in art, music, or sports where new ideas are being brought from research to market.

Technical Skills

Languages	Java, Javascript, Typescript, HTML5, CSS, Python (NumPy, pandas), GoLang, Scala
AWS Services	DynamoDB, S3, Elasticsearch, ElastiCache, Cloudwatch, ECS/EC2, CloudFormation/CDK, Route53
Frameworks	VueJs, React, SpringMVC
Software	Git, UNIX/Shell, NodeJS, Webpack, IntelliJ

Education

The University of British Columbia   **Vancouver, Canada**
BComm. in Computer Science and Business   *08/2014 - 06/2018*

Career Summary

Amazon   **Seattle, WA**

Software Development Engineer II   *7/2020 – Present*

- Led the design and implementation of a modular email composer feature for a customer relationship management platform.
  - Decoupled design from third party features, and implemented a modular, extensible design.
  - Implement UI web components and backend Java APIs; wrote unit and integration tests.
- Design, write, and test a Java library for dynamic front-end view resolution.
  - Implemented and tested a Java library that resolves expressions to page configurations using Spring Expression Language.
  - Implement data store in DynamoDB with DAX cluster caching; create Cloudwatch alarms and dashboards for real-time monitoring.
- Design and implement AWS storage solution for user validation and search.
  - Migrated DynamoDB database with autoscaling and Cloudwatch alarms; integrated with Elasticsearch; synced using DynamoDB streams and AWS Lambda.
  - Created AWS CDK pipeline for CI/CD infrastructure deployments.

Software Development Engineer I   *09/2018 – 7/2020*

- Write and test UI features using VueJs, Javascript, Jakarta Server Pages (JSP), and Java.
  - Implement feature backend in both a AWS ECS service and its accompanying Apache Tomcat service.
  - Design, write, and test VueJs web components using Vuex state management library.
- Create AWS infrastructure to support ongoing projects and migrations.
  - Implemented L1/L2 level caching using Cachemere and Elasticache using AWS CloudFormation.
  - Migrated an internal search service' APIs to use AWS Elasticsearch; implemented Cloudwatch alarms and dashboards for infrastructure
- Implement automated deployment guardrails to enable several CI/CD code pipelines.
  - Integrated internal load testing framework into code pipeline, in order to simulate 2x/3x traffic on a backend service.
  - Wrote and added integration tests into code pipeline, so that service functionality is tested end-to-end before production deployments.

Software Development Engineer Intern   *05/2017 - 08/2017*

- Design, write, and test a Scala library for unit testing machine learning features, in the context of fraud detection.
  - Designed and implemented an algorithm to generate unit tests for 100% of edge-cases in a given ML feature; reducing time that data scientists spent on testing the syntax of their code.
  - Created CI/CD pipeline with a full integration test suite; resulting in a full CD code pipeline.