

David Zhang

4A CS & BBA Double Degree Student

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SKILLS

Languages	Java, Python, Ruby, C++, C, SQL, PHP, JavaScript, HTML, CSS
Frameworks	Storm, AWS, Elasticsearch, Rails, Spring, React, Android, Flutter, MySQL
Concepts	Data Structures & Algorithms, Cloud Computing, Pub-Sub Messaging

EXPERIENCE **Yahoo Finance** • Software Engineer Jan 2020 – Apr 2020 • Sunnyvale, CA

- Developed a full Apache Storm Java pipeline to ingest Morningstar financial reports, acquiring 30% more users to Finance Premium
- Implemented a metadata-based report recommender algorithm using Amazon AWS Elasticsearch to increase retention by up to 20%
- Enhanced real-time pub-sub quote feeds using caching to reduce latency by up to 6%

Shopify • Backend Software Developer Jan 2019 – Apr 2020 • Ottawa, ON

- Took ownership of building the Avalara API client using Ruby and Rails which now calculates and records taxes for 800,000+ merchants
- Improved tax jurisdiction detection by 14% with a new address validation algorithm
- Increased reported revenue accuracy by optimizing the revenue recognition model

Mastercard-Ethoca • Junior Software Developer May 2018 – Aug 2018 • Toronto, ON

- Overhauled the merchant search mechanics by implementing a search algorithm with 5 dimensions of parameters using Spring and Java
 - Implemented functionality including dynamic configuration and automated testing
 - Decreased 50% of server load by re-routing encryption requests more efficiently
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PROJECTS

Wave

- Flutter (iOS and Android) app that sends and receives text/images via sound waves
- Created a backend cloud API using Ruby on Rails and database using MySQL

Distractic

- Android app using Firebase ML and 3D head pose data to detect distracted driving

CERTIFICATE & HONOURS

- Certified Amazon AWS Cloud Practitioner (2020-2023)
- Outstanding co-op performance evaluation from all 3 previous employers
- Hack the 6ix finalist for developing the Wave app

EDUCATION **University of Waterloo & Wilfrid Laurier University** Sep 2017 – Aug 2022
Bachelor of Computer Science & Business Administration Double Degree

INTERESTS Public Speaking, Investing, Tennis, Basketball, Fitness, Violin