

FRANZ CHEN

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LANGUAGES, FRAMEWORKS AND TOOLS

Languages	Go, Python, Java, C, Rust, C++, Javascript, Scala, PHP, Bash
Tools	Docker, Kubernetes, Redis, AWS, PostgreSQL, MySQL, Git, Linux, Apache Spark

EXPERIENCE

AdRoll	January 2018 - April 2018
<i>Backend Engineer</i>	<i>San Francisco</i>

- Optimized a data streaming tool by implementing a high performance multiple string matching algorithm to filter fraudulent events, resulting in a greater than 50% increase in throughput
- Increased the performance of a Python based API by optimizing its concurrency and database queries, leading to a 35% increase in speed across multiple endpoints.
- Designed and implemented features in high throughput ETL pipelines that processed TBs of data per day, using Python, C, C++, Go, Docker, PostgreSQL, on AWS infrastructure

Wattpad	May 2017 - August 2017
<i>Associate Engineer - Platform</i>	<i>Toronto</i>

- Developed a subscription data storage microservice in Go, designed caching strategies to optimize its throughput, and deployed it on AWS with Docker and Kubernetes
- Overhauled a client event data parsing pipeline written in Scala with Apache Spark which ingested hundreds of GBs of data per day, increasing its speed, resource efficiency, and ease of use
- Maintained a legacy PHP backend monolith by refactoring code for clarity and ease of maintenance

PayTM Labs	September 2016 - December 2016
<i>Data Engineer</i>	<i>Toronto</i>

- Created an internal web tool for employee onboarding with Django and MySQL and deployed it on AWS with Docker
- Wrote a service in Python to collect and analyze performance metrics from AWS and bare metal servers

Acquia	January 2016 - April 2016
<i>Java Developer</i>	<i>Toronto</i>

- Developed web applications with MVP architecture using Java EE and GWT
- Implemented client state logic using Java, JDBC, MySQL, Hibernate and Liquibase

PROJECTS

One Press - 2nd Place at UofT Hacks 2016

github.com/Dendrimer/Onepressman

- Wrote the components for communication between an Android and Pebble based application, which gave users an easy way to contact emergency numbers through a push of a button on their smart watch

EDUCATION

University of Waterloo	June 2019 (expected)
<i>Bachelors of Applied Science in Computer Engineering</i>	

- Courses: Operating Systems, Compilers, Databases, Data Structures and Algorithms
- Member of the Water Boys, University of Waterloo's internationally competitive A Capella group