

Zain Zulfiqar

Software Engineer

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SKILLS

Development

- Java
- Scala
- Python
- Android
- Kotlin
- C++
- Git
- PHP
- HTML5 + CSS3
- Thrift
- Hadoop
- Spark

Infrastructure

- Terraform
- CircleCI
- Docker
- Google Cloud Platform
- Firebase
- ZooKeeper

Courses

- Algorithms
- Data Structures
- Concurrency
- Database Design
- Computer Security
- Distributed Systems
- Operating Systems
- Networks
- Compiler Design
- Software Design Principles

EDUCATION

University of Waterloo

Candidate for *Bachelor of Software Engineering*

Sept. 2015 - April 2020

- President's Scholarship of Distinction

EXPERIENCE

CREDIT KARMA | Data Engineering Intern — San Francisco, CA

Jan - Apr 2019

Java, Scala, Python, SQL, CircleCI, Terraform, GCP

- Optimized **Java ETL** jobs to detect and remove duplicate records **20% faster**, thus improving the speed and accuracy of query responses on user analytics for the BI team
- Configured **VM instances on GCE** to deploy personal internal tools; centralized access to useful scripts and services to automate common workflows, effectively improving dev related productivity for coworkers
- Developed a Google Cloud IAM **CLI tool in Scala** to automate + streamline team access requests to GCP, decluttering weekly sprints by **30%** to greatly improve the data team's productivity towards ETL tasks

KIK INTERACTIVE | Android Engineering Intern — Toronto, ON

May - Aug 2018

Java, Kotlin, Android Studio, Kin

- Prototyped, developed, and released the **Chat Themes** feature to **300K+ Android users**
- Integrated the Kin cryptocurrency **transaction system** to introduce premium themes, boosting Kin's value by providing redeemable rewards to incentivize usage within the app
- Implemented a **background notification system** for server-side theme updates using **Google protobuf**

SYMBILITY INTERSECT | Android Engineering Intern — Toronto, ON

Sept - Dec 2017

Java, Kotlin, Android Studio, Swagger, CircleCI

- Redesigned the **Virgin Mobile Android app** making it cleaner yet feature-rich as requested by **100K+ users**
- Developed an **asynchronous job handler with resource caching** using **RxJava + Swagger** to reduce the response latency of network + storage layers by **~50%**, providing a faster, smoother user experience

TUNNELBEAR INC. | Software Engineering Intern — Toronto, ON

Jan - Apr 2017

Java, Android Studio, JUnit, Mockito

- Integrated **Dagger2 and RxJava** to decouple app services, making the architecture modular and testable
- Developed **200+ JUnit tests** over 6 weeks with **Mockito** to catch hidden **data-races** and **faulty edge-cases**, making production services more reliable and secure for **500K+ Android users**

PROJECTS

Goldcup IT Manager — Ismaili Council Ontario (Voluntary, Non-Profit)

Jan 2020 - Present

Python, Flask, AWS, Postgres

- **Leading the development** of a registration + team management platform set to launch by end of February for a soccer tournament; developing the **backend REST API with Flask in Python**
- **Actively compiling specifications** through rigorous **requirements elicitation** from players, coaches, and Goldcup executives, helping to reduce ambiguity for **rapid software development** and testing in short time

Lead Software Developer — Aga Khan Development Network (Voluntary, Non-Profit)

May 2018 - Present

Java, Kotlin, Android Studio, ODK Collect, VTiger CRM, CircleCI, Python

- Established an **agile workflow** with weekly sprints to manage the **development lifecycle**, helping to efficiently communicate **requirements** and **set deadlines** between stakeholders and the Android team
- Integrated **CircleCI and Firebase** for rapid **continuous delivery**, reducing overall turn-around-time by **40%** in actively delivering on **new and changing requirements** of the **stakeholders** once the app went live
- Enhanced the **data + network services** of the Android app to work **offline**, allowing for app-dependent operations to remain **undisrupted** and increasing usability for users in **remote-areas**