

Sahil Jain

3B Software Engineering | sahiljain.ca | s44jain@uwaterloo.ca | 647-949-8165

SKILLS

Languages: Scala, Java, JavaScript, C/C++, Python, Ruby, SQL, PHP

Technologies: Android, Node.js, Cassandra, MongoDB, AngularJS, Rails

Software: IntelliJ IDEA, Eclipse, Visual Studio, Jenkins, Git, SVN

Hardware: Arduino, Raspberry Pi, cRIO, Scribbler

EXPERIENCE

FACEBOOK SOFTWARE ENGINEERING INTERN

Summer 2016 | Menlo Park

C++, Flatbuffers, Thrift, Invertible Bloom Filters, PHP

- Worked on Omnistore library within Messenger
- Reduced Messenger background data usage by 1-2% overall by using Invertible Bloom Filters for set reconciliation
- Optimized state logic and throttling to reduce round-trip requests
- Benchmarked and investigated Zstandard dictionary compression for Omnistore and wrote a script to train zstd dictionaries from production data
- Prevented leaks of internal URLs in open-source documentation by transforming URLs in the document generator

PAGERDUTY BACKEND SERVICES DEVELOPER

Fall 2015 | Toronto

Scala, Cassandra, Finagle, Apache Thrift, Zookeeper, Rails, AWS

- Improved reliability, scalability, and performance of critical realtime Scala services in the alerting pipeline
- Increased production data archival speed **10x** by implementing concurrency
- Improved SLA metric accuracy and reduced transient alerts

REMIND101 SOFTWARE ENGINEERING INTERN

Winter 2015 | San Francisco

Android, Robolectric, Jenkins, AngularJS, Rails

- Developed Android client with over **1 million** downloads; **99.9%** crash-free status
- Independently developed Office Hours feature, used by over **50%** of teachers
- Implemented **Material Design** and enhanced notifications for **Android Wear**
- Improved performance and reliability of test suite by migrating tests to Robolectric and reconfiguring Jenkins build server

PIVOTAL LABS AGILE ENGINEERING INTERN

Spring 2014 | Toronto

Android, Robolectric

- Prototyped and released Android apps using **TDD** and **Agile** the right way
- Learned Android testing best practices from the creators of Robolectric

PROJECTS

WHITEBOARD

Node.js, ExpressJS, MongoDB, EJS Templating

- A platform to help find developers for side projects
- Winner of the **Best Design Award** at HackWaterloo

CHESS AI

Java, Javascript

- A computer chess player using the minimax algorithm with alpha-beta pruning/iterative deepening

EDUCATION

UNIVERSITY OF WATERLOO BACHELOR OF SOFTWARE ENGINEERING

Expected April 2018 | Cumulative average: **92.3%**

AWARDS

University: Dean's Honour List, top 10% of class every term, President's Scholarship

High School: 1st in school in Fermat/Euclid/CCC/SIN, Governor General's Award