

Sahil Jain

3B Software Engineering

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SKILLS

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

Technologies: Android, Node.js, Cassandra, MySQL, MongoDB, Rails, Angular, React

Software: IntelliJ IDEA, Git, SVN, Mercurial, Vim, Tmux, Jenkins, AWS

EXPERIENCE

FACEBOOK SOFTWARE ENGINEERING INTERN

Spring 2016 | Menlo Park

- Contributed to C++ cross-platform data-syncing library in **Messenger**
- Reduced Messenger background data usage by **1-2%** overall using Invertible Bloom Filters for set reconciliation
- Optimized state logic to reduce round-trip requests
- Recommended Zstandard dictionary compression using benchmarks
- Recommended changes to Flatbuffer schemas to reduce serialized message size
- Independently contributed to Google Flatbuffers **open source** project

PAGERDUTY BACKEND SERVICES DEVELOPER

Fall 2015 | Toronto

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

REMIND101 SOFTWARE ENGINEERING INTERN

Winter 2015 | San Francisco

- Developed Android client with over **5 million** downloads
- Independently developed Office Hours feature, used by over 50% of teachers
- Implemented **Material Design** and enhanced notifications for **Android Wear**
- Improved test suite performance by migrating to Robolectric, reconfiguring Jenkins
- Made UI improvements to Rails and Angular app

PIVOTAL LABS AGILE ENGINEERING INTERN

Spring 2014 | Toronto

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

PROJECTS

CHESS AI Java, Javascript, Amazon EC2

A computer player using the minimax algorithm with alpha-beta pruning

WHITEBOARD Node.js, ExpressJS, MongoDB

A platform to connect developers, **Best Design Award** at HackWATERLOO

EDUCATION

UNIVERSITY OF WATERLOO BACHELOR OF SOFTWARE ENGINEERING

Expected April 2018 | Cumulative average: **92.6%**

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