

Andrew Gopic

4B SOFTWARE ENGINEERING STUDENT

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Technical Skills

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

Technologies: Hadoop, Redis, Storm, Spark, GraphQL, gRPC, React, Git

Experience

Facebook

New York City, USA

Software Engineering Intern

Sep. 2018 - Dec. 2018

- Worked on the initial development of the Watch Party product, providing users with a shared viewing experience.
- Built a feature using Hack/PHP to deliver billions of notifications daily to users when a live video is started.
- Led a project with cross-functional teams to improve notification quality for live videos, reducing videos with zero viewers by 12% and increasing video watch time by 3%.
- Implemented data pipelines using Hive to create dashboards that identified pain points in the Watch Party product.

Oath

Sunnyvale, USA

Software Engineering Intern

Jan. 2018 - Apr. 2018

- Worked on a middle tier Java platform that allows developers to write performant APIs, completely replacing a legacy system and increasing throughput from 200 RPS to 10,000 RPS.
- Wrote multiple gRPC services to fetch data asynchronously from Redis and Cassandra.
- Implemented a GraphQL reverse proxy in Java that sends asynchronous batch calls to multiple gRPC services, reducing CPU and memory utilization by 40%.

Oath

Sunnyvale, USA

Software Engineering Intern

May 2017 - Aug. 2017

- Architected and implemented a distributed search index, unifying data from 100 million users across multiple products.
- Utilized Storm and Java to stream data in real-time across multiple colocations and clusters.

IBM Canada

Toronto, Canada

Software Developer Intern

Sept. 2016 - Dec. 2016

- Improved web performance by over 50% by caching user sessions with Redis.
- Built a machine learning pipeline feature on top of Spark MLlib; demonstrated usage with chronic kidney disease dataset using logistic regression to obtain an accuracy of 88%.

Teaching Assistant

Operating Systems (SE350)

Jan. 2019 - Apr. 2019

- Instructing third year Software Engineering students in the development of an operating system using an ARM processor.

Projects

Twitch Spark Streaming Connector

Scala, Java, Apache Spark | <https://git.io/v7kql>

Jul. 2017

- Built the first Spark Streaming library for Twitch.tv, which streams chat messages over multiple worker nodes on a cluster.
- Includes fully documented code and relevant use cases. Available on Maven Central.

Enron Data Fraud Identifier

Python, scikit-learn | <https://git.io/vwGTU>

Mar. 2016

- Identified guilty Enron employees using logistic regression; obtained a recall rate of 73% and an accuracy of 83%.

Education

University of Waterloo

Bachelor's in Software Engineering, Dean's Honours List

Waterloo, ON, Canada

Sept. 2014 - June 2019