

# Loc Bui

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## Education

**Bachelor of Science in Computer Science**, University of Rochester

Anticipated May 2022

- **GPA:** 3.79/4.0
- **Relevant Coursework:** Advanced Algorithms, Database Systems, Operating Systems
- **Google Developers Student Club:** Worked as Tech Lead to organize 3 workshops about Google Cloud Products (Flutter, Firebase, GCP) with nearly 100 participants in total

## Technical Skills

**Languages:** C++, Python, Go, Java, PHP, JavaScript, SQL

**Technologies:** Node.js, Flask, Laravel, AWS, Azure, Spark, MySQL, MongoDB, Airflow, Docker, Datadog, Git

**Experiences:** Web & Android App Development, Distributed Systems, Cloud Computing, Database Development

## Experience

**Facebook**, Current Software Engineer Intern

June - August 2021

- Worked on Creator Studio platform to support music labels and creators understand their content performance in Facebook's family of apps and grow their business
- Developing data exporting feature to export metrics to csv files using Exports (internal MapReduce framework)
- Implemented Top Country and Top Product APIs to help users understand know where their content performed best
- **Technologies:** Hack, React, Laser (internal data indexer for Hive), Saber (internal database), Exports

**Snowflake**, Software Engineer Intern

March - May 2021

- Tracked and stored database storage files' lifetime and churn rate in metadatas for all tables in Snowflake
- Developed system function to monitor workloads and estimate replication costs upfront to decide replication frequency
- Debugged issues and proposed and implemented fixes for storage statistics management component
- **Technologies:** Java, FoundationDB, Snowflake, Jenkins

**LaunchDarkly**, Software Engineer Intern

June - August 2020

- Developed low-latency data pipeline exporting data & events from internal system to customers' Azure Event Hubs
- Utilized AWS Kinesis, AWS Lambda, and AWS SQS to process terabytes of data a day and schedule retries on failure
- Set up Honeycomb.io & Datadog to continuously monitor the pipeline and create alarms to detect abnormalities
- **Technologies:** Go, AWS Kinesis, Azure Event Hubs, MongoDB, AWS Lambda, AWS SQS, Datadog

**Teko Ventures**, Software Engineer Intern

May - August 2019

- Managed data pipeline processing of over 12 billion transaction records to generate OLAP cubes for Analytics team
- Implemented tool to track data & schema changes in ingestion process, which minimizes resources required for ETL
- Developed scripts to automatically generate and send daily reports via mail, which were used across Data department
- Utilized Spark API and internal tool to improve ETL process, reducing storage need by 12% and time by 20%
- **Technologies:** Python, Spark with HDFS, PostgreSQL, MySQL

## Projects

**CSP Online Practice Environment**, Web Application

August 2019 - May 2020

- An educational website for 1000+ students in my high school to learn and practice coding skills
- Designed database and developed backend services to handle submissions and retrieve data for each coding problem
- Utilized Docker container to execute and grade students' code parallelly and isolatedly
- **Technologies:** Laravel, PHP, Docker

## Awards & Honors

**ICPC World Final 200 & 2021:** Incoming participants

C++

**Facebook Hacker Cup 2020:** Round 2, 511<sup>th</sup> place (out of 32000 participants)

C++

**Google Cloud Hero Challenge 2020:** 1<sup>st</sup> place (out of 20 participants)

Google Big Query