

Loc Bui

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Experience

Snowflake, Software Engineer

October 2021 - Present

- Participated in design and development of Sub-Database Replication feature, which was one of the big milestones for Snowflake 2.0, enabling cross-organization collaboration and data-sharing seamlessly and cost-efficiently. The feature helped reducing costs by 70% compared to the previous solution and getting more interest and participants in Snowflake Marketplace
- Participated in the development of multiple projects such as Replication Group feature and Componentize Refactor
- Wrote documents and supported other teams to opt into Replication and the new Sub-Database Replication frameworks
- Developed Integration Test framework to enable and enhance experience with writing tests with Replication feature
- Developed and participated in design of Replication Cost Estimator, helping customers to understand the cost and how to optimize when opt into Replication feature.
- Found and implemented a fix for under-billing bugs, which under-billed replication job by a 30% on average
- Found and implemented a fix for race conditions caused by half-dead computing instances and instances recovery
- Technologies:** Java, Python, FoundationDB, Snowflake, Jenkins

Facebook, Software Engineer Intern

June - August 2021

- Worked on Creator Studio platform to support music labels and creators to understand their content performance in Facebook's family of apps and grow their business
- Developed 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

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

Awards & Honors

ICPC World Final 2022: 44th place

C++

ICPC World Final 2021: 52nd place

C++

Credit Suisse Coding Challenge 2020: 1st place

C++

Vietnam Olympiad in Informatics 2017: 16th place

C++

Projects

Techsphere, Web Application

August 2021 - Sep 2022

- A platform providing free mentorship for college students and junior software engineers with 4000+ signed-up users
- Designed and developed core flows of the platform including Authorization, Data Models, and Scheduling
- Participated in discussion with Project Managers and Founder to plan product road map and analyze upcoming features
- Led a team of 5 engineers and utilized SCRUM model to manage and boost up performance of the team
- Technologies:** React, Firebase Firestore, GCP Functions, GCP Hosting

Technical Skills

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

Technologies: React, Node.js, Flask, AWS, Azure, GCP, Spark, MySQL, MongoDB, Docker, Git

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

Education

University of Rochester, Bachelor of Science in Computer Science

August 2018 - May 2022

GPA: 3.79/4.0

Relevant Coursework: Advanced Algorithms, Database System, Operating System, Networking