

# Loc Bui

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## Education

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

*Anticipated May 2022*

- **Major GPA:** 4.0/4.0
- **Relevant Coursework:** Advanced Algorithms, Design & Analysis of Efficient Algorithms, Web Programming, Mobile App Development, Database Systems, Computer Organization, Data Structures & Algorithms
- **Campus Leadership Activities:** Tech Lead at Developers Student Club, Teaching Assistant for Data Structures and Algorithms course, Teaching Assistant for Computer Organization course

## Technical Skills

**Programming Languages:** C++ 11, Python, Java, JavaScript, SQL

**Database & Storage System:** Spark, MySQL, PostgreSQL, AWS Redshift, Cassandra

**Technologies:** Flask, Laravel, .NET Core, Android, Docker, Git, AWS

## Experience

**LaunchDarkly**, *Incoming Software Engineer Intern*

*June - August 2020*

- Placement: Data Team, expected to analyze/ingest data of customer activities on product
- **Technologies:** Go, Java, Flink, AWS, PostgreSQL, ElasticSearch

**Teko Technology**, *Software Engineer Intern*

*May 2019 - August 2019*

- Managed data pipeline processing of over 12 billion transaction records from a computer retailer
- Implemented internal tool named Change Data Capture to facilitate data storing during ingestion process
- Developed scripts to automatically generate and send daily reports via mail
- **Technologies:** Python, Spark with HDFS

**Monkey Junior**, *Software Engineer Intern*

*May - August 2018*

- Developed educational games inside applications of the company reaching 90,000 downloads
- **Technologies:** C++, Cocos

## Awards & Honors

**NAC Finalist, 24<sup>th</sup> place (out of 400 university teams):** *ACM ICPC North America Championship*

**C++**

**USA Champion, 1<sup>st</sup> place (out of 1000 participants):** *Credit Suisse USA Coding Challenge*

**Java**

**Consolation Prize, 19<sup>th</sup> place (out of 1000 participants):** *Samsung Collegiate Programming Cup*

**C++**

**Silver Medal, 16<sup>th</sup> place (out of 500 participants):** *Vietnam Olympiad in Informatics*

**C++**

## Projects

**CSP Online Practice Environment**, *Web Application*

*August 2019 - Present*

- An educational website for 1000+ students in my high school to enhance coding skills
- Design database and develop backend services to handle submissions and retrieve data for each coding problem
- Build ranking pages to show performances of users
- **Technologies:** Laravel, PHP, Docker

**Change Data Capture**, *Data Warehouse Tool*

*July - August 2019*

- An internal tool tracking data and schema changes to minimize resources required for ETL
- Implemented the tool to support data ingestion from **PostgreSQL** and **MySQL** to **HDFS**
- **Technologies:** Python, Spark with HDFS

**Graph Drawing**, *Web Application*

*November 2018*

- An online website visualizing graphs to facilitate students' learning of Data Structures & Algorithms
- Collaborated with a member to design and develop the website in a 2-day hackathon (DandyHacks)
- **Technologies:** JavaScript with d3-graphviz, CSS