

Rafit Jamil

rafit.jamil@gmail.com | rafit.me | github.com/rafitj | linkedin.com/in/rafitj

Skills

Languages | Python, Java, C++, JavaScript, TypeScript, Golang, SQL, HTML/CSS

Technologies | Node.js, Spring Boot, React, Django, Flask, AWS, MongoDB, Redis, Neo4j, GraphQL, Docker, Git

Education

University of Waterloo | Bachelor of Software Engineering (B.SE)

September 2018 - April 2023

Work Experience

Software Engineering Intern | **Facebook (Meta)**

January 2022 - April 2022

Menlo Park, CA (Remote)

- Creating Vulkan based real-time ray tracing module in C++ and Python for full body [Codec Avatars](#).
- Developing highly efficient ray casting algorithms interoperable with CUDA buffers and PyTorch tensors.
- Benchmarking performance of computations, quality of mesh resolutions and compatibility of GPU devices.

Software Engineering Intern | **Google**

October 2021 - January 2022

Mountain View, CA (Remote)

- Built ML-based parameter optimization library for Core Data processing with C++, Spanner and TensorFlow.
- Cut data refresh speeds by 26% using new library's suggestions for parallelism and batch size parameters.
- Engineered thread-safe monitoring to log 9000+ parameter suggestion metrics from all concurrent workers.

Software Engineering Intern | **Amazon**

July 2021 - October 2021

Vancouver, BC (Remote)

- Architected real-time data streaming and analytics platform for Amazon Jobs using Java, Node and AWS.
- Deployed cloud-pipeline to filter and stream 100,000+ job events via Dynamo DB, Kinesis, S3 and Redshift.
- Empowered users with custom cloud data warehouse; slashing data access time from 48 hours to 3 minutes.

Software Engineering Intern | **Salesforce (Slack)**

May 2021 - July 2021

San Francisco, CA (Remote)

- Led Slack-first Salesforce mission, building renderers and data providers in Spring for Slack App Framework.
- Scaled metrics API to support custom telemetry, report 520 hours of server health and integrate with Kafka.
- Supported more complex Slack apps with chainable actions and programmable third-party integrations.

Software Engineering Intern | **Meter**

July 2020 - December 2020

San Francisco, CA (Remote)

- Spearheaded development and 67% adoption of flagship defect analysis software made in Python and React.
- Generated 6 TB of scan data with synthetic, cloud ETL data-pipeline built with OpenCV, SQL, RDS and S3.
- Developed CAD compare and 3D-measurement tools on web-app with TS-React, VTK, Three.js and Firebase.

Software Engineering Intern | **Setter (acq. Thumbtack)**

January 2020 - May 2020

Toronto, ON

- Skyrocketed customer service rating by 47% with real-time ticketing app made in Node, React and GraphQL.
- Led full-stack integration of Knex.js, Cloud SQL and Elasticsearch for robust RESTful search across apps.

Software Engineering Intern | **MLSE (Toronto FC + Toronto Raptors)**

May 2019 - September 2019

Toronto, ON

- Built CNN-LSTM model with Apache ML, PySpark and TensorFlow to classify game events with 89% accuracy.