

UNIVERSITY OF WATERLOO

2014 – 2019 | Waterloo, ON, Canada

Computer Science Honour, Co-op

+1 (669) 204-2210

garry1994916@gmail.com

linkedin.com/in/garryliu

WORK EXPERIENCE

Stripe | Software Engineering

January 2022 - Current | New York, NY, U.S.A

- Account Enablement Primitives team, provides APIs and platform for users to supply KYC information and internal teams to consume
- Spun up and main contributor to a new Java service with all new proprietary technologies, including codebase architecture, db schema design
- Helped evolve tools and libraries on the new Java stack as early adopters
- Maintaining production Ruby codebase; increased reliability and efficiency with durable writes and improved locking strategy

BLOOMBERG LP | Software Engineering

August 2019 - December 2021 | New York, NY, U.S.A

- Web API Gateway team, provides a platform and tools for internal teams to onboard RESTful APIs to Bloomberg API
- Implemented and maintaining client SDK's for accessing Bloomberg web API in Java and Python
- Designed and implemented new long-lasting API auth token flow, including token generation service and verification process
- Maintaining and adding features to engineer-facing self-service API management portal with Python/Flask, Javascript/React

BLOOMBERG LP | Software Engineering Intern

September 2018 - December 2018 | New York, NY, U.S.A

- Data Services Team, provides metadata for security data model and security ID translation to support
- Improved usage of Java Kryo serialization library to reduce redis cache size by 50% and latency by 30%
- Created script to generate vocabulary and ontology rdf for Bloomberg Standard Data Model's metadata

January 2018 - April 2018 | New York, NY, U.S.A

- Multi-Asset Risk System(MARS), a Terminal function for risk management for portfolio
- Utilized Apache Spark to improve data aggregation process, reduced both server and client pressure by moving heavy calculations to Spark
- Tuned Cassandra database that improved Spark read and write performance

NVIDIA | Grid Cloud Software Engineer Intern

May 2017 - August 2017 | Santa Clara, CA, U.S.A

- NVIDIA Entitlement System, a web service that manages user information for NVIDIA GeForceNow
- Created and maintained RESTful API endpoints and web portal UI
- Implemented and maintained an authentication service using the OAuth standard for the whole solution ecosystem
- Utilizing Cassandra database for fast access to reduce service latency
- Created unit and integration tests for existing and new features

BDO IT SOLUTIONS | Junior Consultant and .NET Developer Intern

September 2016 - December 2016 | Mississauga, ON, Canada

- MMS, a cloud-based multi-tenancy web application
- Utilized Microsoft technology stack; including MVC Framework, Entity Framework and MS SQL
- Implemented, stabilized and refactored several features to improve performance
- Deployed and maintained QA testing site
- Assisted off-shore development team with technical problems and client requirement explanations

TRAPEZE GROUP | Software Developer/Analyst Intern

January 2016 - April 2016 | Mississauga, ON, Canada

- Novus platform team, an enterprise-level web software system for public transit
- Improved and extended test framework for Novus using Selenium and NUnit with C#
- Implemented functionality including database management, data-driven-test generation and failure-log into the test framework
- Discovered and resolved several bugs and defects in product-level applications
- Modified and converted applications UI to fit newer version of platform

2TOLEAD | Office 365 Developer Intern

May 2015 - August 2015 | Remote, Canada

- Worked on proof of concepts of utilizing Microsoft Graph in SharePoint
- Investigated the capability of Microsoft Graph service
- Created SharePoint JavaScript web parts with Microsoft Graph

TECHNICAL SKILLS

LANGUAGES

•Python •Java •JavaScript/TypeScript •Ruby •C++ •Scala •Go

TECHNOLOGIES

•Dagger •Mockito •Bazel •Flask •SQLAlchemy •Flask •React •Redux •Sorbet •Apache Spark •PostgreSQL •Cassandra

Tools

•Honeycomb •Splunk •SignalFx •Humio •Grafana