Bryan Lou

bryanlou.xyz
10.bryan.lou@gmail.com | 226.972.2789

EDUCATION

UNIVERSITY OF WATERLOO
BCS in Computer Science
Apr 2019 | Waterloo, ON
Faculty of Mathematics
Cum. GPA: 3.63/4.0
Major GPA: 3.7/4.0

COURSEWORK

UNDERGRADUATE
Algorithms
Data Structures
Operating Systems
Artificial Intelligence
Computer Security and Privacy
Compilers
Distributed Systems

SKILLS

LANGUAGES
Java • Shell • JavaScript • Python
C/C++ • Go • LaTeX

FRAMEWORKS
React Native • Express • FusionJS
Backbone • Node • GraphQL
PyTorch • Flask • Redux

TOOLS
Git • Docker • Kafka
Jenkins • Cassandra • Hadoop
AWS • Kubernetes • Spark
Klockwork • Coverity • Wireshark

LINKS
Github bryanlou
LinkedIn bryanlou000
Twitter @bryanlou3
Quora Bryan-Lou

EXPERIENCE

UBER | Software Engineer
May 2019 – Present | San Francisco, CA
- Developed highly distributed systems, fault tolerant tier-0 microservices
- Worked on API platforms, storage systems and web frameworks using Golang, Python, TypeScript and React
- Implemented a consistency monitoring service in Kafka, Cassandra, and Presto for Uber's 1000+ microservices in run-time
- Architected Uber Cities, a web application built using React + GraphQL for the configuration platform

AIRBNB | Software Engineering Intern
May 2018 – Aug 2018 | San Francisco, CA
- Designed new paths in the payments processing logic for credit card vaulting
- Rebuilt Airbnb stored value system supporting bank cards, gift card, referral credit, employee credit, improving average transaction speed by 75
- Implemented payout batching for credit cards using API endpoints in service oriented architecture payout flow system
- Revamped the front-end checkout experience using React, Redux and Javascript

SIEMENS | UI Engineering Intern
May 2017 – Aug 2017 | Toronto, ON
- Developed and shipped highly responsive web applications using Angular,NodeJS environment and libraries
- Built and shipped the Smart Grid Extension within RD team leveraging third-party and internal APIs
- Created and executed automated scripts including unit and end-to-end testing using Jasmine, Karma , and Protractor
- Contribute to continuous integration for automated builds, tests, and deployments using GitLab CI , Docker, and OpenShift

BLACKBERRY | iOS Developer Intern
Sept 2016 – Dec 2016 | Toronto, ON
- Engineered major features of Blackberry Messenger's customer-facing iOS app using XCode, Objective-C, Swift, CocoaPods and C++
- Proposed and implemented scalable solutions to improve mobile app performance when loading contacts on legacy devices
- Spearheaded UI automation tests and unit tests for iOS environment using Jenkins, Carthage and OCMock

PROJECTS

OCTOPROFILE | Developer
2018 | Waterloo, ON
A nicer look at your GitHub profile and repo stats. Includes data visualizations of your top languages, starred repositories, and sort through your top repos by number of stars, forks, and size.

USPOTIFY | Developer
2017 | Waterloo, ON
A web app for visualizing personalized Spotify data. View your top artists, recently played tracks, audio info, playlists and more.