

# José Ulises Niño Rivera

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## EDUCATION

**JOHNS HOPKINS UNIVERSITY**  
**MENG IN COMPUTER SCIENCE**  
May 2016 | Baltimore, MD GPA: 4.0

## DIVERSITY

Founded and led Uplyft Unidos, Lyft's LatinX Employee Resource Group. Focused on LatinX recruiting, successfully hosting several networking events, and interview batch days resulting in several dozen hires.

## WRITING

### **INFOQ | MITIGATING CASCADING FAILURE AT LYFT**

This article was also published in InfoQ's service mesh eMagazine.

### **LYFT ENG | PUBLIC ARTICLES**

Several blog posts from my time at Lyft.

## SPEAKING ENGAGEMENTS

**ENVOYCON 2020** Community and Extensibility: Building Envoy's Flexible Compression Subsystem

**QCON LONDON 2020** Next Generation Client APIs in Envoy Mobile

**ENVOYCON/KUBECON NA 2019** Envoy Mobile in Depth: From Server to Multi-platform Library

### **VELOCITY 2019 SAN JOSE, AND BERLIN**

- How Lyft Migrated to a Service Mesh
- Deploying hybrid topologies with Kubernetes and Envoy: A look at service discovery

### **KUBECON NA 2018**

- Keynote: Envoy Project Update
- Evolving Legacy Systems into Kubernetes at Lyft: A Hybrid Environment

### **KUBECON EUROPE 2018**

Developer Productivity with Envoy

## EXPERIENCE

### **PATCH | STAFF SOFTWARE ENGINEER**

Q2/2022 – Present | Remote

Building an API first Carbon Removal marketplace to scale up Carbon Removal to the gigatonne scale the world needs.

### **LYFT | STAFF SOFTWARE ENGINEER**

Q2/2019 – Q2/2022 | Seattle, WA

Client Networking Team

- Designed, implemented, and open sourced Envoy Mobile, a new client networking library based on the Envoy project.
- Focused on the implementation of the library's core networking aspects: DNS, HTTP, threading design, bridging platform (iOS, Android) stacks with the native C++ core.
- Architected and implemented a revamped version of the HTTP stack that allows for extensibility via HTTP filters. This platform will enable future work around smart network behavior, security, compression, and protocol experimentation (QUIC).
- Created a real-time time-series metrics pipeline to extract metrics out of Lyft's mobile clients.
- Led cross-company collaboration to build solutions on top of the Envoy Mobile platform.

### **LYFT | SENIOR SOFTWARE ENGINEER**

Q1/2018 – Q2/2019 | Seattle, WA

Tech Lead (since Q3 2018) for Lyft's Networking team.

- Defined the team's roadmap for H2 2018 and H1 2019, advancing projects involving multiple teams across Lyft's Infrastructure org. The roadmap focuses on projects for developer productivity, and site reliability through self healing systems. The network team's work was foundational in decomposing Lyft's monolith and building Lyft's modern, service-oriented architecture.
- Created onboarding documentation and curricula that was used to onboard half a dozen new Network team members.

### **LYFT | SOFTWARE ENGINEER**

08/15/2016 – Q1/2018 | Seattle, WA

Server Networking Lead in Lyft's Networking team. Our team standardizes how machines at Lyft handle traffic and communicate.

- Member of the team that implemented and open sourced Envoy. Project Maintainer.
- Developed, open source, and maintain Ratelimit. Ratelimit is a go/gRPC generic rate limit service used in production at Lyft and other industry peers to enable network and application level global ratelimiting in a distributed system.
- Designed, implemented, and rolled out Lyft's control plane solution for Envoy.

### **FLATIRON HEALTH | SOFTWARE ENGINEERING INTERN**

06/01/2015-08/15/2015 | New York City, NY

- Engineer a highly parallel Apache Spark cluster to improve Flatiron's data pipeline efficiency.

## RESEARCH

### **SARIA LAB | RESEARCH ASSISTANT**

Spring 2015 – Spring 2016 | Baltimore, MD

- Designed and developed Dashan: a modular system to analyze Electronic Medical Records. The system has been deployed to several hospitals in the Hopkins Medical System.