Joshua **Samuels**

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Experience

Block (Cash App)
Remote

INTERMEDIATE SOFTWARE ENGINEER - CASH APP PAY SERVER (FULL TIME)
May 2021 – Present
- Led the design and development of several features required to unblock the GA release with one of our largest partners, which acccounted for roughly 30% increase in payment volume and 25% increase in GPV
- Owner and advisor to Cash App Pay's public API - I implement and review changes to the API to ensure they align with our best practices
- Built and launched the MVP for a disputes service from scratch to handle Cash App Pay disputes within the Block disputes ecosystem
- Designed and developed a new architecture for the Cash App Pay sandbox so new and existing merchants can test their integrations
- Led load-testing for Cash App Pay's most critical service in 2022 and planned to increase payment throughput by 10x in 2023
- Calibrated pair programming interviewer conducting interviews on a weekly basis - I have conducted 30+ interviews so far

Block (Cash App)
Remote

SOFTWARE ENGINEER - CASH iOS (CONTRACT)
Dec 2020 – Apr 2021
- Added offline support for the Investing and Bitcoin modules within the iOS version of Cash App
- Developed improvements to the Investing module's dark mode and accessibility features

Taplytics
Remote

FULL STACK INTERN
May 2020 – Aug 2020
- Modularized and improved Cloudflare Workers in Node that process close to 250 million requests per day
- Improved Cloudflare Worker infrastructure by creating a CI pipeline and consulting on a release schedule
- Added variation sharing and extension messages to the Taplytics Chrome extension in React.
- Solved various ad-hoc problems including creating an iOS 14 privacy doc that was shared to all mobile SDK clients, introducing go links, and fixing various Obj-C bugs without prior knowledge

Block (CashApp)
Kitchener, ON

SOFTWARE ENGINEER INTERN - iOS
Jan 2020 – Apr 2020
- Developed the Cash App Lending iOS module from a prototype to a production-ready product
- Built an app message prompting users to link additional aliases to their Cash accounts reducing support cases by 2%
- Modularized and removed significant amounts of legacy code from the iOS version of Cash App

Block (Square)
San Francisco, CA

SOFTWARE ENGINEER INTERN - DEPLOY
May 2019 – Aug 2019
- Led the development of a Kubernetes Configuration Management (kube config mgmt) service in Go
- Collaborated with internal teams including legal and security to improve kube config mgmt and open source this service
- Created a CI flow to securely validate and store Kubernetes configurations

University of Guelph
Guelph, ON

UNDERGRADUATE RESEARCH ASSISTANT
Sept 2018 – Apr 2019
- Led the development of an API to track health and weather patterns in the circumpolar north with NodeJS

Skills

Programming Languages: Kotlin, JavaScript, Go, Swift, Bash
Frameworks & Tools: AuroraDB, Node, Hibernate, React, Express, Jest, Mocha, Protobuf, Docker, Kubernetes
Databases: MySQL, Kafka, Spanner, MongoDB, DynamoDB

Projects

Populate Template Action BUILDING A GITHUB ACTION IN NODE TO DYNAMICALLY POPULATE AND COMPILE LATEX TEMPLATES WITH JSON DATA

UoG Course Availability Notifier USED CLOUDFLARE WORKERS (NODE) AND DYNAMODB TO PARSE UNIVERSITY COURSE AVAILABILITY AND EMAILED USERS WHEN A SUBSCRIBED COURSE BECAME AVAILABLE WITH A 10 MINUTE SLA

Education

University of Guelph
Guelph, ON

B.COMP. IN SOFTWARE ENGINEERING | MINOR IN BUSINESS ADMINISTRATION
Sept 2016 – Apr 2021