## Alex Milkov, Software Engineer amilkov3@gmail.com | (404) 317-1005 | East Coast, US

SUMMARYPast experience resides in distributed systems and programming language theory. Seeking dev

roles around finance, AI/ML, or crypto

## EXPERIENCESquare (Block), Senior Software Engineer

Jul 2019 — Present

https://block.xyz

- Developing and maintaining service (Go) which manages merchant catalogs. Clients are Square POS and Dashboard (internal) and UberEats, Postmates, etc (external). Datastore is sharded MySQL. Search is backed by Elasticsearch. Rearchitecting next generation of this service which is a generic object store all teams can use, backed by **TiDB**
- Developing and maintaining services (Go) which track inventory counts, costs, and report generation
- Introduced Rust to Square by porting internal libraries necessary to run a service in Square's environments. (gRPC + HTTP server framework, clients, custom protobuf compiler, admin console, MySQL + Redis integration, logging, metrics, Envoy, builds, feeds, jobs, etc)
- Lots of design docs, PR reviews, interviews, and documentation writing

**Comcast, Senior Software Engineer (Contract)** 

Jun 2018 — Dec 2018

https://weather.com

• Full stack work on isomorphic system - Scala.js + React bindings, Scala backend (heavy functional programming shop) - enabling operators to remotely manage the configuration of hundreds of thousands of newly rolled out networking devices

The Weather Company (IBM), Senior Software Engineer Sep 2016 — Jun 2019 https://weather.com

- Migrated services to AWS's managed (EKS) Kubernetes (k8s) and carved out best practices and recommended tooling (Prometheus, Alertmanager, Grafana, Loki, nginxingress, etc) as part of org-wide migration to IBM Cloud
- Responsible for developing and maintaining user profile system (Scala) that manages all user data such as subscriptions, locations, demographics, and device endpoints
- Responsible for developing and maintaining alerting system (Scala), which fetches user subscriptions, populates content templates, and distributes them to devices
- Lead initiatives to adopt libraries and develop tooling in the purely functional side of the Scala ecosystem. Mentored engineers in functional programming language theory

## **EDUCATIONGeorgia Institute of Technology**

Jan 2015 — Dec 2018

M.S. - Computer Science

**Georgia Institute of Technology** 

Aug 2011 — Dec 2014

B.S. - Industrial Engineering

SKILLSLanguages: Go, Rust, Python, Scala, Haskell, Clojure, Java, JavaScript/Typescript

**Datastores:** MySQL, MongoDB, Elasticsearch, ArangoDB

Devops: Kubernetes, Docker

LANGUAGESBulgarian (Native speaker)