

Employment

Staff Software Engineer **Block Inc, Remote, USA** **2024 – Present**

Local Team – Kotlin, Misk, Aurora DB

- Part of a small team of senior engineers tasked with building "Local" a product that connects Square sellers with Cash App customers. A key contribution that accelerated the time to market was developing a pragmatic, "good enough" solution to handle sending cash back to buyers whenever they transacted with a seller. This approach saved several months of development time, significantly reducing the go-to-market timeline and enabling faster validation of the product.

Staff Software Engineer **Block Inc, Remote, USA** **2019 – 2023**

Cash App, Investing Team – Kotlin, Misk, Aurora DB –

- Led the Stock/Bitcoin Gifting project, one of the first of its kind in the industry, enabling Cash App customers to send and receive various asset types seamlessly. I architected the technical solution for how the investing team would support the project while simultaneously acting as a liaison, leading a cross-functional working group of 7 teams to ensure alignment on technical decisions and secure the necessary support. One of my most impactful contributions was influencing the design of the new P2P infrastructure to support multiple asset types beyond fiat, shaping the foundation for future innovations. Additionally, I strategically broke down the project execution to test the initial concept in the market without requiring a full infrastructure overhaul, accelerating go-to-market by approximately 6 months, reducing risk, and enabling faster customer feedback.
- Led the migration of critical investing-related components from the Cash App monolith, significantly improving the reliability and availability of the investing product. Our team was one of the first to initiate and successfully complete this complex migration, setting a strong precedent for other teams. I played a pivotal role in crafting detailed migration plans that prioritized delivering value to customers early and developing reusable migration recipes that streamlined the process for other teams. These contributions not only accelerated the overall migration effort but also established best practices for future initiatives.
- Served as a consultant software architect for the Teen Investing project, enabling teens to gain exposure to the stock market in a safe and seamless manner. Leveraging my deep knowledge of the Cash App ecosystem, I guided the team on key technical decisions, ensuring alignment with best practices and long-term scalability. A pivotal contribution was suggesting the development of a bridge component that allowed the team to reuse existing business logic still residing in the Cash App monolith, effectively reducing the go-to-market timeline by approximately 4 months.

Senior Software Engineer **Groupon Inc, Remote, USA** **2018 – 2019**

Card Link Offers Team – Java8; Ruby; PostgreSQL; Redis; Sidekiq; Splunk; Blazemeter–

- Card Interaction Service is in charge of registering credit cards and receiving transactional data from the Credit Card Providers (VISA, MasterCard and Amex). I led the design/implementation of this service. I interacted closely with the MasterCard and Amex Product/Engineering teams to ensure the success of the project.
- Targeted Offers project is meant to decrease Merchant Attrition. I led the design of the system by interacting closely with the Business/Product teams. One interesting technical challenge I solved was to improve the latency of the Product#fetch endpoint (from 200ms to 10ms) and increased the throughput to 180K rpm.
- Mentored Software Engineers. Two of them got promoted from Junior to Mid-Level.

Full Stack Software Engineer **Groupon Inc, Seattle** **2017**

Things To Do Team – JavaScript; Ruby; NodeJS; MySQL –

- Led the implementation of Front End module to allow customers to buy multiple inventory in one transaction.
- Wrote the proposal to stop using JQuery in favor of Vanilla Javascript. This was adopted Groupon-wide.

- Modified the Things-To-Do Inventory Service to improve the latency of an endpoint (from 600ms to 20ms) and to increase the throughput to 100K rpm.

Backend Software Engineer Groupon Inc, Chicago 2013 – 2016

Global Finance Engineering Team – Ruby; Ruby on Rails; Clojure; MySQL; Memcached; Redis; Resque –

- Led the process of adding Geo Redundancy support to 10 services (Global Financial Infrastructure).
- Built the Audit System to ensure that the new and legacy ledger agree on transactions accounted for contracts.
- Built the VAT Invoicing Service (13 EMEA Countries), reducing the processing time from 3 days to 12 hours.

Backend Software Engineer Groupon Inc, Santiago, Chile 2012 – 2013

LATAM Finance Engineering Team – PHP; CakePHP; MySQL; Java SE –

- Built the integration between the LATAM (6+ countries) platform and the Global Ledger System (Netsuite).
- Built the Tax Retention System for Argentinian and Colombian Partners.

Software Engineer Contractor, Chile 2005 – 2008

Meaculpas, Liquor Store Chain – Python; Django; PyGTK+; JavaScript; PostgreSQL –

- Led the development of the Points of Sales (7+ branches) and the Management platform of the business.
- Led the implementation of RemuneX: A Payroll System for 100+ employees.

Education

Santiago, Chile Universidad de Chile March 2010 – April 2013

- M.S.E. in Computer Science, April 2013; Thesis: Safe and Practical Decoupling of Aspects with Joint Point Interfaces. Published in ACM Transactions on Software Engineering and Methodology, 2014.

Additional Experience and Awards

- **Privacy Champion:** Advocate for best practices and compliance of General Data Protection Regulation (GDPR), Groupon, 2018.
- **Erlang Interest Group:** Led bi-weekly meetings to talk/learn about Erlang. Group conformed by 10 software developers, Groupon, Chicago, 2016.

Languages and Technologies

- Kotlin; Ruby; Java8; JavaScript; SQL; Python; Clojure; PHP; AspectJ; Erlang
- Misk; Ruby on Rails; Django; MySQL; PostgreSQL; Redis; Memcached; NodeJS; CakePHP; Sidekiq; Resque; Splunk; Blazemeter; Datadog; Kafka