# ROCKY GRAY
**Software Engineering Leader**

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## EXPERIENCE

### Engineering Manager
**Cash App**

Feb 2023 — present    Remote — San Francisco, CA

I am an engineering leader on a global team providing core infrastructure for money movements. I am accountable for the real-time distributed ledger that tracks all financial transactions within the Cash ecosystem.

`Leadership` `API Platform` `Data Engineering` `Java`

### Engineering Manager
**Twitter**

Nov 2020 — Nov 2022    Remote — San Francisco, CA

Led globally distributed teams building platforms that provide Rest, GraphQL, and RPC interfaces for core ads data.
- Grew a team of 5 engineers supporting two platforms to an org of 15 with two teams: Ads API and Data Service
- Promoted ICs at each from L4 (SWE I) to L7 (Staff) and an IC to an EM
- Defined a multi-year roadmap to increase the internal development velocity of ads products
- Led the cross-functional implementation of an architectural design pattern to parallelize web product experimentation and API product design

`Leadership` `API Platform` `Data Engineering` `Scala` `Java` `GraphQL`

### Senior Software Engineering Manager
**Capital One**

Apr 2018 — October 2020    McLean, VA

Tech lead and people leader for the Focus platform that enabled secure, scalable storage of customer documents and programmatic integration with third parties.
- Managed 2 teams that focused on the core APIs and the SRE/operations for the platform.
- Designed and led the implementation of critical projects for the platform: **dual-region architecture, asynchronous virus scanning, object-level encryption**
- Won a Technical Excellence award for the platform's growth, innovative technical design, and reliability
- Top performing interviewer for college and professional engineers conducting behavioral and technical interviews
- Member of the leadership team supporting 5 teams in the organization
- Primary and co-inventor on patents derived from the platform's designs

`NodeJS` `Go` `Java` `Kubernetes` `Aurora MySQL` `Cassandra` `Terraform` `CloudFormation` `Ansible` `AWS` `API Platform` `OpenAPI` `Data Engineering` `Leadership`

### Lead Software Engineer
**Storyblocks**

Dec 2014 — Mar 2018    Arlington, VA

Tech lead of the Strategic Technologies team which provided engineering platforms and tools, maintained cloud infrastructure, built data pipeline, and developed enterprise products while providing thought leadership for the engineering organization.
- Designed and implemented the migration of our infrastructure from a set of managed servers to AWS with Docker
- Designed and implemented an events pipeline to track KPIs for our business. The pipeline consisted of a PHP events framework, Kinesis Firehose, NodeJS Lambda function, and a Redshift data lake
- Established and maintained an enterprise grade API and corporate products in a new business unit that generated over $1M in new revenue for the company
- Led teams through coaching and development; represented engineers in cross-calibration sessions and provided semi-annual performance feedback

`PHP` `NodeJS` `Scala` `React` `Angular` `Python` `Ruby` `Docker` `MySQL` `Postgres` `MongoDB` `CloudFormation` `Ansible` `Data Engineering` `API Platform` `OpenAPI` `AWS` `Leadership`

### Software Engineer
**Capital One**

Jul 2012 — Dec 2014    Vienna, VA

A full-stack engineer developing some of the first REST APIs for credit card resources and helped build the API Developer Portal - the banking industry's first public APIs.

`API` `Java` `OpenAPI` `Data Engineering`

### Co-founder and CTO
**FlashCrystal**

Jun 2012 — present    Nashville, TN

Built the platform for digital media distribution using NFC and web technologies.

`Leadership` `PHP` `NodeJS` `Cloud Infrastructure` `NFC`

## LIFE PHILOSOPHY

*"Never give up."*

## MOST PROUD OF

**People leadership**
Leading globally distributed teams through both tranquil and chaotic times.

**Achievements**
Patents and tech excellence awards

**Tech organization growth**
Contributed to organizational growth at Storyblocks, Capital One, and Twitter

## STRENGTHS

`System Design` `Technical mentorship` `Leadership` `Infrastructure management` `Application Architecture` `APIs` `Automation`

## LANGUAGES

| | |
|---|---|
| JavaScript | ● ● ● ● ● ○ |
| Go | ● ● ● ● ● ○ |
| Java | ● ● ● ● ○ ○ |
| PHP | ● ● ● ● ● ○ |
| Shell | ● ● ● ● ○ ○ |
| Python, Ruby, scripting | ● ● ● ○ ○ ○ |

## EDUCATION

**B.E. in Computer Engineering**
**Vanderbilt University**

## CERTIFICATIONS

**Solutions Architect Associate**
Jan 2019: EET55E012B1QQC5L

**Certified Secure Software Engineer Associate**
March 2020

## PATENTS

**US Patent US10474506B1**
"Finite state machine driven workflows," Nov. 12 2019

**US Patent US10997611B2**
"Distribution of media with tracking and analysis of media usage for royalty, loyalty and collection of metadata," May. 4 2021

**US Patent US11171945B2**
"Time-based token trust depreciation," Nov. 9 2021

**US Patent US11113678B2**
"Systems configured to manage user-related external party-activity software objects by using machine-readable indicia and methods of use thereof," Sept. 7 2021