

# ROCKY GRAY

Software Engineering Leader

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## EXPERIENCE

### Engineering Manager

Twitter

Nov 2020 – present    Remote — San Francisco, CA

Managing teams of talented engineers building the next generation of revenue APIs and data access layers.

Leadership

### Senior Software Engineering Manager

Capital One

Apr 2018 – October 2020    McLean, VA

Tech lead and people leader for an API platform serving internal and external clients.

- Managed 2 teams using Capital One’s leadership framework to include, empower, and inspire direct reports
- 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    Cloud Infrastructure  
API Platform    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    Docker    MySQL    Postgres    MongoDB  
CloudFormation    Ansible    Data Engineering    API Platform  
Cloud Infrastructure    Leadership

### Software Engineer

Capital One

Jul 2012 – Dec 2014    Vienna, VA

A software engineer in the Technology Development Program (TDP) with roles in Enterprise Data Services and the Enterprise API Platform.

API    Java    Data Engineering    Ab Initio

### Co-founder and CTO

FlashCrystal

Jun 2012 – present    Nashville, TN

Head of engineering. Built the foundations of the platform and oversees active development.

Leadership    PHP    NodeJS    Cloud Infrastructure

## LIFE PHILOSOPHY

“Never give up.”

## MOST PROUD OF

- People leadership**  
Inclusive and empowering tech leader
- Achievements**  
Patents and tech excellence awards
- Tech organization growth**  
Contributed to organizational growth at Storyblocks and Capital One

## STRENGTHS

System Design    Technical mentorship  
Leadership    Infrastructure management  
Application Architecture    APIs    Automation  
Getting stuff done

## LANGUAGES

Javascript    ● ● ● ● ●  
Go    ● ● ● ● ●  
Java    ● ● ● ● ●  
PHP    ● ● ● ● ●  
Shell    ● ● ● ● ●  
Python, Ruby, scripting    ● ● ● ● ●

## EDUCATION

B.E. in Computer Engineering

Vanderbilt University

May 2012

## CERTIFICATIONS

- aws Solutions Architect Associates**  
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 US20210119986A1**  
“Time-based token trust depreciation,” Pending Oct. 16 2019