

# ROCKY GRAY

## Software Engineering Leader

 Washington D.C Metro Area

 @RockyGJr

 www.grocky.com

 grocky

 rocky.grayjr@gmail.com

 grocky



## EXPERIENCE

### Engineering Manager

Twitter

 Nov 2020 — present

 Remote — San Fransisco, CA

Engineering manager for platforms providing 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 internal development velocity of ads products
- Led the cross-funcitonal implementation for 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 programatic 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.

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**  
Hands-on, inclusive, and empowering leader
- **Achievements**  
Patents and tech excellence awards
- **Tech organization growth**  
Contributed to organizational growth at Stroyblocks, 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

 May 2012

## 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