

EMPLOYMENT

December 2014 – Present

VideoBlocks

Reston, VA

Sr. Software Engineer, Full Stack and Cloud Engineer

A member of the Strategic Technologies Team which leads innovation and thought leadership for the engineering organization. Our main responsibilities include managing the company's cloud infrastructure, building a data pipeline, and researching and implementing search algorithms.

- Virtualized engineering development environments and automated setup using Vagrant, then Docker, which reduced onboarding time by over 80%
- Implemented features in our core product that used Bootstrap, Angular, and generic JS on the front end with PHP on the server side that interacted with a MYSQL database
- Redesigned the core application's configuration loader to allow configuration injection via the environment. This provided us the flexibility to migrate the application from a managed host server to a cloud environment
- Designed and implemented a server side event framework that allowed engineers to generate events to signal asynchronous processing and track events through a Kinesis stream, processed by a Lambda function that feeds into a Redshift data lake
- Managed cloud infrastructure and implemented automated deployments using Ansible, Jenkins, and nodejs
- Implemented a web application firewall using WAF that allowed teams to block users that exhibited invalid behavior
- Provided thought leadership on Software Engineering best practices and RESTful API design and implementation
- Implemented automation tools to increase the engineering team's efficiency and productivity using nodejs scripts (bash if needed) with a Hubot interface integrated through the Slack API

May 2012 – Present

Rocky Gray Consulting

Home

Software Engineer

Owner of small business providing software solutions for small to medium sized businesses.

- Designed, implemented, and managed a service written in PHP to allow music artists to share digital media through NFC capable devices for www.flashcrystal.com
- Designed, implemented, and managed a RESTful web service written in nodejs that provides the backend for the mobile app of an ed-tech startup, www.edfundrgiving.com, which allows alumni and faculty to donate directly to student organizations

July 2012 – November 2014

Capital One

Richmond and Vienna, VA

Software Engineer

A member of the Enterprise API platform team that lead the adoption of REST APIs by implementing frameworks and processes to ease developer workflows and provide guidance to RESTful API design and implementation.

- Designed and implemented SOAP and RESTful middleware using an internal framework built on Jersey and Spring
- Built a platform that provided a sandbox that allowed teams to deploy APIs which can be used by the enterprise through Swagger UI and development testing
- Implemented a mock and stub layer between the enterprise and an API sandbox which significantly decreased the time for product prototyping and eased developer testing
- Lead for college hire technical interviews where I designed the technical and behavioral interview questions. Trained over 50 associates to deliver, evaluate, and discuss technical interview questions. Provided enrichment sessions for associates in non software engineering roles.

June 2011 – August 2011

Capital One

Richmond, VA

IT Intern

- Developed relationships between applications, VMs, and servers within a CMDB
- Designed and implemented server patching automation scripts in Windows and Linux environments

EDUCATION

Vanderbilt University

B.E., Computer Engineering and Engineering Management

May 2012