

Collin M. Shoop

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WORK HISTORY

Senior Software Engineer

June 2022 - Current

Google

Software Engineer II

April 2021 - June 2022

DigitalOcean, New York, NY (Remote)

- Worked on feature development and operations for DigitalOcean Container Registry and Managed Kubernetes products written in Go
- Skilled at translating and iterating on product requirements. Worked independently to resolve dependencies and fill requirement gaps
- Responsible for responding to and addressing on-call incidents and customer reports. Developed internal tools to improve speed and effectiveness of investigations into customer resources
- Contributed to DigitalOcean and Kubernetes open source projects: Kubernetes component releases, Docker Distribution bug fixes and optimizations, and updates to product documentation

Senior Lead AWS Software Engineer

November 2020 - April 2021

Planalytics, Inc., Berwyn, PA (Remote)

- Responsible for design, implementation, maintenance, deployment, and operations of Dockerized Java applications running in Kubernetes
- Managed AWS Kubernetes cluster. Leveraged AWS node groups, pod placement strategies, and auto scaling to optimize cost and performance of both microservices and on-demand Spark clusters
- Built and maintained a responsive internal web app to provide centralized management and visibility of business resources and processes spread across multiple services. Follows MVC design with VueJS, Java, REST and secured with internal OAuth
- Skilled at designing and implementing efficient, robust, scalable code through methodical design, organized abstraction, adoption of stateless / fault tolerant patterns, and testing for both performance and correctness

Software Engineer II

September 2018 - November 2020

Comcast, Philadelphia, PA

- Contributed software engineering expertise in the development and maintenance of a large-scale, distributed DVR scheduling system serving over 20 million customers across multiple geographic regions

- Lead efforts to research, design, and implement transition from monolithic to microservice using AWS serverless technologies to provide scalable and cost-effective solutions
- Skilled at developing, deploying and debugging distributed cloud applications with AWS, leveraging expertise in provisioned and serverless infrastructure, networking, monitoring, and security
- Leveraged automated tooling and infrastructure as code to perform fast reliable deployments

Owner / CTO

May 2017 - October 2019

Tru Technologies, Danville, PA (Ceased operations)

- Led company technical decisions and managed allocation of company resources and goals to optimize application development
- Leveraged Java Spring and JavaScript to create a responsive web application for users to manage SMS mailing lists

Software Engineer

January 2016 - May 2017

Raytheon, State College, PA

- Developed and maintained Java micro services and back-end restful interfaces for processing large amounts of signals intelligence data

EXPERTISE

Languages	Java, GoLang, Kotlin, JavaScript, VueJS
Data Store	PostgreSQL, MongoDB, Elastic Search, Memcached
Tools	Kubernetes, Docker, Terraform, Ansible, Spark
Cloud Providers	AWS, DigitalOcean
Mathematics	Calculus, Diff. Equations, Computer Theory, Abstract Algebra

EDUCATION

Bloomsburg University of Pennsylvania, Bloomsburg, PA
 B.S. in Computer Science, B.S. in Mathematics

May 2012 - December 2015