

Summary

Innovative software engineer and technical leader with extensive experience designing and delivering large-scale, cloud-based systems in media, streaming, and financial services. Skilled in Go, Java, Python, and cloud platforms (AWS, GCP, OpenStack), with a proven record of improving reliability, scalability, and developer practices. Recognized with a Technology & Engineering Emmy Award for contributions to AI/ML-powered media analysis. Strong communicator and mentor, driving cross-team collaboration, reliability initiatives, and technical excellence.

Experience

Capital One

Lead Software Engineer

McLean, VA

May 2025 – Dec 2025

- Member of the Card Reliability Enablement Team, responsible for delivering tools and best practices to improve the reliability of services within the Card line of business
- Created a set of OpenTelemetry best practices to improve the quality of telemetry data collected from services within the Card line of business. These practices were published as an internal blog post and presented to multiple engineering teams through an SRE community of practice
- Proposed a service to validate the presence and quality of distributed tracing from requests for critical customer journeys
- Participated as a trainer for the Enterprise Reliability Workshop, and implemented recommendations to improve the quality of the training material

Paramount

Senior Software Engineer (contractor)

Remote

August 2022 – May 2025

- Designed and implemented a content configuration service, providing dynamic rule based modification of DASH and HLS streaming manifests for playback requests in Paramount+. The service was implemented in Go, containerized using Docker and deployed to GKE using GitHub Actions and Terraform
- Enhanced the content configuration service to provide enhanced selection of manifest files based on device capabilities and user entitlements
- Implemented and enhanced a player configuration service, providing dynamic configuration to players for Paramount+

Comcast

Principal Engineer

Washington, DC

January 2021 – April 2022

- Designed interfaces and implemented services to provide cloud-based media analysis as a service, implemented in Go and deployed on AWS using EKS
- Enhanced on-device middleware written in JavaScript for the XClass TV products designed by Comcast and manufactured by Hisense

Senior Engineering Manager

July 2019 – January 2021

- Managed a team of software, QA and operations engineers responsible for the end-to-end delivery and support of cloud-based media analysis services for products within Comcast, Sky and NBC Universal
- Collaborated with architecture, product management and product delivery teams to ensure timely delivery of services that were consistent with architectural guidelines
- Provided technical leadership to the team through mentoring and code reviews

Principal Engineer

January 2016 – July 2019

- Architected, designed and implemented a system to analyze live video and deliver metadata for the DVR Smart Resume and NFL Sports Highlights applications on Xfinity X1. This system is capable of scaling up to process thousands of video streams within the Comcast footprint, and was later extended to provide services for golf, soccer, cricket and Formula 1 highlights to Sky customers
- Developed live video processing infrastructure to automate master control operations for channels originated by Comcast
- Designed and implemented a Go library for streaming data between containers in a media analysis pipeline
- Enhanced an existing system for processing recorded video using container scheduling on Kubernetes
- Migrated processing infrastructure from an internal VMWare cloud to an internal OpenStack cloud and finally to AWS using Terraform automation
- Optimized media analysis processing performance and cost by migrating from containers deployed on EC2 to higher level AWS services

Senior Software Engineer (contractor)

July 2014 – January 2016

- Enhanced a menu content management system for Xfinity X1
- Refactored a client facing menu Java web service, addressing performance and scalability issues to meet SLA
- Implemented features to allow dynamic menu selection, enabling personalization and A/B testing
- Designed and implemented a background process to determine menu visibility based on the availability of content

AtTask (Adobe Workfront)

Lehi, UT

Principal Engineer

July 2012 – July 2014

- Provided technical leadership, mentoring and guidance to teams implementing product features
- Implemented a mechanism for public and protected (secure) document sharing
- Implemented an integration with ProofHQ document proofing
- Implemented a calendar based task view

Skills

- **Programming Languages:** Go, C, Java, Python, JavaScript
- **Operating Systems:** Linux, macOS, Windows
- **Cloud:** Google Cloud Platform, Amazon Web Services, OpenStack, Terraform

Patents

Caption Anomaly Detection

US12267540

April 1, 2025

Awards

National Academy of Television Arts and Sciences

Contributions to Technology & Engineering Emmy Award

2022

- Recognized for contributions to the 2021-2022 Technology and Engineering Emmy Award: AI-ML Curation of Sports Highlights

Education

The University of Utah

Salt Lake City, Utah

Bachelor of Science in Computer Science