

# Andy Claiborne

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I took a break from working in April 2024 to travel and have adventures. I am excited about returning to a senior technical position in 2025. I love building, deploying, and monitoring high-quality/high-performance software. I love working with amazing teams. I'm a fun person to work with. I get things done.

## Experience

**Sabbatical** <https://veloandy.github.io/portfolio-microsite/blog.html> (4/2024-early 2025)

Went backpacking; flew to Mexico; drove my old my VW van all over USA; camped on ferry to Alaska and took float planes to see grizzly bears; rode motorcycles in Ecuador; saw some great rock concerts

**Principal Engineer, Software Development & Engineering - Full Stack Development, Comcast (10/2021-4/2024)**

- Wrote full stack software in Go to process ~950 SCTE35 signals per second across 3000 video streams to enable over \$3 billion in revenue from targeted ad placements annually
- Built, documented, maintained, extended, and deprecated internally facing APIs
- Generated Prometheus metrics and built Grafana production dashboards. These were informed by my on-call production ops rotations
- Built continuous integration using Concourse and GitHub Actions to exercise changes, cut releases, provision infrastructure, and deploy code
- Built artifacts, provisioned ephemeral infrastructure, and deployed code using Docker, Kubernetes, Helm, and Terraform

**Lead Software Development Engineer in Test (SDET), Comcast VIPER and previous contractor (7/2017-10/2021)**

- Led a team of 4 SDETs to build a Python framework that automated live video playback tests (verifying closed captions, ad insertions, spanish audio, pause, FF, REW, video freezes), reducing QA cycle time from 1 week to 8 hours
- Developed a framework in Go to automatically provision and destroy transcoder channels. Reduced the cost of validating 8 HD channels from \$96,000 in hardware provisioned 24/7 to \$12,000, provisioned only during validation cycles
- Wrapped my Go test framework in a C library wrapper so it could be easily imported and used by Python code developed by other QA teams

**Software Engineer, DevOps Consultant, Scrum Master, Tech Lead, Hewlett-Packard/HPE (5/2000-7/2017)**

- Consulted with HP customers on adopting high-velocity DevOps practices (code collaboration, containerization, continuous integration, production monitoring)
- Lead the development of a large Java project that monitored HP equipment for customers with mission-critical support contracts as a SAFe-certified scrum master and developer
- Introduced HPE to Github Enterprise; administered GHE instance for my 250-person group when this was one of the largest GHE deployments in the world; upgraded the first highly-available version of GHE
- Built extensive integration tooling around the Github API and chat ops

### **CTO & Chief Engineer Crowd911.com StartUp**

<https://www.crunchbase.com/organization/white-cheetah> (12/2012-2014)

- Ran a startup on the side during my time at HP that used geolocated data to alert groups of users about disasters
- Pulled data from US government APIs with Ruby on Rails app that had a Backbone.js front end, on top of a Postgres DB, deployed to Amazon EC2 instances with database backup/restore on Amazon S3
- Hired and managed a total of 6 employees at height of start up
- Built extensive test framework, deployment tooling, and monitoring that enabled us to deploy multiple times per day to AWS with low risk and high confidence

### **Degrees**

- Masters of Business Administration, Colorado State University 2010
- BS Computer Science, University of New Mexico 2002

### **Patents**

- Computing Infrastructure Provisioning 10,291,466 (4/27/2016)
- Diagnostic tool for a plurality of networked computers with incident escalator and relocation of information to another computer 7,051,320 (8/22/2002)
- Method, apparatus and means for silently customizing software within a multi-platform environment 7,100,159 (11/4/2002)

### **Hobbies**

- Presenting science and engineering topics to my wife's elementary school class
- Modding and wrenching on vans, cars, and motorcycles
- Working with the California Air Resources Board (CARB) to get my friend's company's aftermarket VW van parts certified to be sold in California
- Backpacking trips with long-time friends and annual (super-slow) runs in the deserts of the Navajo nation with my family are usually highlights of my year.
- I love traveling to new places and talking to strangers. I get an embarrassing level of joy when someone actually understands my fumbling attempts at foreign languages