

## Alec Levin

alec@arlevin.org | (707) 373-6962

Résumé website: [arlevin.org](http://arlevin.org)

Portfolio: [github.com/arl505](https://github.com/arl505)

## Objective

As a fast and adaptive learner, I excel as an individual contributor. As a highly methodical and organized person, I likewise excel as a lead. Leveraging the sum of these skills, I will help organizations to create incredible and memorable technology.

## Skills

Java	GoLang	Ruby
Linux command line	Spring and SpringBoot	AWS
Backend service architecture	Critical system operations	Deployment pipeline design and Jenkins

## Experience

Amazon Web Services (AWS) — EC2 Nitro - Seattle, WA

Software Engineer, EC2 Nitro, January 2022 - Current

- Extended and maintained EC2 Nitro monitoring system, responsible for transport and delivery of all EC2 Nitro logs and metrics (a petabyte scale task)
- Delivered 70% reduction in service Java heap memory usage (p100) by writing a GoLang tool to allow us to remotely execute heap dumps, and then analyzing the heap dumps to identify bugs in the code leading to memory leak
- Improved duration to apply monitoring system changes by 80% through deep diving Java and Ruby code and refactoring existing code to eliminate wasteful calls
- Decreased technical ticket queue depth by 67% via relentless drive to respond faster to customer issues and to reduce overall operator burden
- Owned service launch into 6 new regions: coordinated infrastructure delivery and dependency management, as well as stood up the service, tooling and monitoring

Ford Motor Company - Detroit, MI

Lead Software Engineer, June 2019 - December 2021

- Team tech lead, focused on high level direction of product and team
- Developed and maintained high performance Java backend system processing millions of vehicle transactions per day, at several hundred transactions per second
- Led team on experiments of collaborative programming, test driven development, trunk based development, pipeline automation, and other modern agile practices
- Enabled vehicle connectivity using Spring Boot with various OAuth 2.0 flows
- Started as agency employee via TekSystems, Inc. (June 2019 - November 2020)

Lawrence Berkeley National Laboratory - Berkeley, CA

Computing Sciences Summer Student Researcher, Summer 2015

- Used Python's NumPy (SciPy) and Matplotlib to construct visualizations of high frequency weather data (AmeriFlux) to perform quality assurance and correction

## Academics

Humboldt State University - Computer Science B.S., May 2019