

# Martin A. Barker

Bachelors of Science 2019  
Computer Science / Cybersecurity  
Oregon State University

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## Education

- Computer Science / Cybersecurity bachelor's degree; graduated June 2019.
- Student Engineer (paid) / DJ at [KBVR FM / TV](#). 2015 - 2019.

## Technical Skills

- Full-Stack Web Development in NodeJS, React, jQuery, HTML, and CSS.
- Python scripting, releasing Pip packages, and Django web development.
- Object oriented programming in Java, bash scripting on linux terminal.
- Database setup, integration, and querying with SQL, MySQL, and MongoDB.
- Utilizing Docker and microservices to deploy apps with Kubernetes on AWS/GCP/Azure.
- Publishing cross-platform desktop apps with Electron to the Mac/Win/Linux stores.

## Professional Experience

### Alaska Airlines - Software Developer Contractor 9/2021-12/2021

- Strengthened accessibility features on Alaska Air websites for use with assistive technology.
- Updated e-commerce mile accrual logic to better support new flight partners.

### Bungee Tech - Software Engineer 1/2020 - 8/2021

- Designed responsive front-end web user interfaces for displaying 1 million+ rows of data.
- Maintained our suite of automated stealth web scraping virtual machines to run reliably daily.
- Implemented error alerts and health monitoring on AWS/Azure/DigitalOcean products.
- Overhauled our machine learning human verification system front and back end.
- Coordinated week long on-call rotations solving DevOps networking / DNS issues.

### Zume, Inc - DevOps Engineer (Software Engineer I) 9/2019 - 1/2020

- Created CI/CD pipelines in GCP for dynamically scaling Kubernetes clusters.
- Utilized pipeline tools such as Helm, Terraform, Spinnaker, and Ingress load balancers.
- Developed blue / green deployment systems on GCP for Kubernetes projects.
- Orchestrated webhooks to trigger Docker containerization and environmental deployments.

### MoxiWorks - QA Engineer Internship 6/2018 - 8/2019

- Programmed Java Groovy testing automation in Katalon IDE to cover web/mobile products.
- Explored how automated daily testing suites were scheduled using Jenkins.

## Projects

- [RenderTune](#): Electron ffmpeg video editor published on [Mac/Windows/Linux](#) stores.
- [tagger.site](#): Generate timestamped tracklists and tags using files or a Discogs URL.
- [martinbarker.me](#): Personal NodeJS website with custom css image-based coloring.
- [Popularity](#): Utilize the Spotify Web API to sort an artist's discography by Popularity..
- [Vinyl2Digital](#): Python3 Pip Package for exporting audio files with Audacity/Discogs API.

## Aspirations

To further develop my programming skills and continue pushing myself forward learning new technologies. Improving the ways people digitize, share, and interact with music online.