Jeremy Swerdlow

Software Engineer

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Work Experience

Software Development Engineer, Amazon Music For Artists, Los Angeles, CA July 2020 – Present

- Notified over fifty-five million fans when their favorite artists live-stream by allowing musicians to connect Twitch accounts to their Amazon Music for Artists profile through a cloud-based Java Guice application built on native Amazon Web Services (AWS) integrating with React and React Native clients.
- Expanded the scope of Amazon Music's offerings by allowing artists to display their creativity outside of just their music through curated collections of merchandise displayed in the Amazon Music application supported by an AWS service.
- Designed and implemented an internal operator tooling React application supported by AWS to improve responsiveness to requests from artists and labels.
- Standardized operator tooling through an internal library of React components for a seamless user experience.
- Supported custom pre-code review hooks for more than fifty thousand internal software engineers.

Software Engineer, Bloomberg LP, New York, NY September 2018 – July 2020

- Orchestrated machine allocation and state for more than ten thousand builds daily across hundreds of Jenkins instances with a stateless, distributed service written in Python, Java, and Go to provide internal teams with a server-less continuous integration testing experience.
- Led design and implementation of a testing framework to simplify and optimize user onboarding for container-driven testing with Docker and Docker Compose in an ephemeral, isolated environment allowing for meaningful performance metrics and high confidence in successful results.
- Enriched legal documents with an API built using Java Spring for use in an ingestion workflow processing more than a hundred thousand documents daily and in a batch job for historic records.

Research, Earlham College Icelandic Field Studies, Richmond, IN August 2017 – June 2018

- Ingested, transformed, and enriched reading from a LiDAR sensor attached to a UAV over network ports on a BeagleBoard, preparing for the generation of point clouds used to track volumetric changes and identify structures including ground nests of Tern bird populations and archaeologically significant Viking settlements.
- Tracked the impact of climate change year-over-year on the size of Iceland's Sólheimajökull glacier.
- Generated three-dimensional representations of spaces using stitched images collected by a UAV.
- Calculated and offset the carbon footprint of the research's travel, housing, and computation to have a net-neutral impact.

Data Science Intern, CoverMyMeds, Columbus, OH May 2017 – August 2017

- Improved performance (F1-score) of a random forest decision tree generated from more than three hundred million data points used to determine if a prior authorization will be required for medications by more than 2%.
- Extended Python's Bokeh library to build a containerized standalone GUI for business analysts to make informed decisions about the client impact from adjusting the confidence levels of the aforementioned model.

Education

Bachelor of Arts in Computer Science, Earlham College, Richmond, IN August 2014 – May 2018

- GPA: 3.76 / 4.0
- Collegiate Honors
- Dean's List