Anthony D'Andrea

https://anthonydandrea.dev

Email : anthonydandrea2@gmail.com

Mobile : 203-788-3012

EXPERIENCE

Amazon Web Services
New York, NY

Software Development Engineer II
Nov 2022 - Present

- Owned critical deliverables for launch of the GuardDuty Agent, announced at re:Invent 2022
  - Owned system design and implementation of service for tracking agent lifetimes and charging customers
  - Quickly designed and delivered global metrics ingestion service for feature release metrics and monitoring
- Led design and implementation of the Malware Feature Extraction Service
  - Invented development framework which could support adding new feature extraction containers in under a day
  - Horizontally scalable per feature and able to handle feature dependency DAGs
- Designed and delivered an extensible, event-driven malware ingestion service to improve data access for researchers
- Created centralized data catalog to simplify data access organization-wide
  - Assisted in building research platform based on Sagemaker Studio with approved access to production datasets

Software Development Engineer I
Feb 2021 - Nov 2022

- Led the requirement gathering and system design of an automated malware collection and analysis platform
  - Collaborated with cross-functional stakeholders to disambiguate architecture requirements in support of multiple organizational use cases
  - Designed and implemented the Sample Ingestion Service for event-driven file ingestion from multiple source types
- Rapidly built Blue/Green deployment infrastructure for an internal API averaging 105k TPS

PROJECTS

- **MetPro34.com** [**Acquired by J.W. Pepper**] Cross-platform, cloud-based metronome app for music ensembles to easily program any complexity music into a metronome sequence for the most efficient practice regimen. Users can also upload files to share with all other members in the ensemble, including MP3 files to practice with.
- **RudimentGenerator.com** Website for generating guaranteed-playable music for snare drum which allows the user to configure probabilities of rudiments, accents, stickings, and permitted rhythms.

TECHNICAL SKILLS

- **Languages**: Rust, Python, Typescript, Java, Bash
- **Technical Skills**: AWS, Linux, Docker, Git, Infrastructure as Code (IaC), Cloud Development Kit (CDK), React, Globally Distributed Systems, CI/CD
- **Soft Skills**: Cross-Functional Collaboration, Consensus Building, Dealing with Ambiguity, Active Communication, Leadership

EDUCATION

University of Connecticut
Storrs, CT

Bachelor of Science in Computer Science
Aug 2015 - May 2020

Bachelor of Arts in Applied Mathematics
Aug 2015 - Dec 2020