

# Anthony D'Andrea

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## EXPERIENCE

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### Amazon - FireTV

Seattle, WA

*Software Development Engineer II*

*Dec 2023 – Present*

- Package owner and lead developer of the **Rust** cross-platform build and development tools used across Amazon, supporting **200+ engineers** working on **60+ packages**.
- Bootstrapped the **first FireTV DevX metrics solution** for insights into critical data such as disk space usage, clean build times, and user behavior.
- Primary contributor and leader of org-wide initiative to migrate **Java** middleware over to **cross-platform native middleware** for an up-to **80% reduction** in memory usage.

### Amazon Web Services

New York, NY

*Software Development Engineer II*

*Oct 2022 – Dec 2023*

- Primary developer of **mission-critical** services and features for a **global GA launch** of [GuardDuty Runtime Monitoring](#), announced at **re:Invent 2022**.
- Designed a malware analysis service pipeline to enable adding automated, **independently-scalable** analyses in **under one day**.
- Ideated and bootstrapped an **organization-wide data catalog** to enable a simple, centralized data access model for **40+ engineers** across **6+ teams**.

*Software Development Engineer I*

*Feb 2021 – Oct 2022*

- Took ownership over incomplete **Blue-Green deployments** infrastructure for sister team and rapidly delivered the system supporting a **core service** receiving **100k+ TPS**.
- Designed and delivered a **file-ingestion service** for downloading and indexing files from an extensible list of sources.
- Analyzed customer usage patterns which resulted in a **~100% faster API migration** campaign.

## PROJECTS

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### MetPro34.com | [Acquired by J.W. Pepper and Son](#)

*Aug 2019 - Feb 2023*

- World's first cross-platform, cloud-based programmable metronome app. Available on [Web](#), [iOS](#), and [Android](#).
- Users can make an account and join multiple ensembles. Ensembles contain programmable metronome sequences plus offline file storage for practicing with MP3s or sharing documents.
- Service written in **Node.js** using **Express** web framework, built into a **Docker** container and deployed on **Google Cloud Platform**. Uses **MongoDB** as the database.
- Cross-platform **SPA** front-end written using **React** on the **Capacitor** runtime. Low-latency audio modules written in **Swift** and **Java** for precise audio timing on mobile devices.

### RudimentGenerator.com

*Apr 2020*

- Web application for generating guaranteed-playable snare drum music. Available on [Web](#).
- Users can customize their relative chances of generating particular rhythms, patterns, and note decorations.
- Service written in **Go** built into a **Docker** container deployed on **Google Cloud Platform**. A **Python** script generates the markup file which is parsed by **LilyPond** for generating the PDF. Front-end is **React**.

## EDUCATION

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### University of Connecticut

Storrs, CT

*B.S. in Computer Science*

*2015 – 2020*

*B.A. in Applied Mathematics*

## TECHNICAL SKILLS

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**Languages:** Rust, Python, Typescript/Javascript, Java, Bash, C

**Areas of Expertise:** Cloud infrastructure, Globally distributed services, Build tools, Cross-platform development