Josh Levy – Software Engineer

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EXPERIENCE

AppLovin – *Member of Technical Staff 4 (promoted from MTS 3 within 6 months)* | Palo Alto, CA | 07/2025 – Present

- **Led UX research and experiment design** for an auto-fading skip button in playable ads, mentoring a summer intern through implementation and production rollout; the A/B test lifted margin by **3%** and installs by **1.17%**, annualizing to **$205M** in gains.

- Shipped a **Playable Analytics API and Ads Manager dashboard** adopted by **350+ advertisers**; built the Scala reporting pipeline and data-quality checks that detected invalid event sequences and inconsistent counts, improving install-rate model performance by 3 bps, annualizing to **$44M** in gains.

- Developed an **AI-powered pipeline** that generates interactive HTML ad templates from advertiser websites; launched **20+ templates adopted by 30+ advertisers**, increasing monthly interactive spend by an average of **$20K per adopter**.

- Built an API using **Playwright-based checks** to automatically validate uploaded HTML ad assets for behavioral violations, blocking **20,000+ non-compliant uploads** and surfacing violation reasons in the Ads Manager UI.

- Created a **multilingual captioning pipeline** for video ads, lifting **ROAS by 2.1%** and **CTR by 3.5%** in non-English-speaking regions.

- Migrated shared backfill workloads to **Spot VMs** while retaining on-demand capacity to maintain baseline throughput during preemptions, cutting GCP costs by approximately **$1M annually**.

Capital One – *Software Engineer* | Boston, MA | 08/2023 – 04/2025

- Deployed a **React.js dashboard** enabling team leads to track and remediate internal applications missing SSO enforcement; automated owner notifications with **AWS Lambda**, driving **300+ remediations across 50+ teams**.

- Built a **Java Spring Boot REST API** to validate general-ledger datasets before submission, eliminating **15+ hours per month** of manual data-quality review.

EDUCATION

Rice University – *M.S. Computer Science, Machine Learning* | 06/2024 – 08/2026

Case Western Reserve University – *B.S. Computer Science* | 08/2019 – 05/2023 | Division III Men's Basketball

SKILLS

Front-End & Product: React.js, Next.js, React Native, Svelte, TypeScript, HTML/CSS, Tailwind, Redux, Accessibility, Jest, Cypress, Storybook, A/B Testing, Experiment Design

Back-End & Data: Node.js (Express.js), Django, Flask, Spring Boot, Microservices, REST APIs, GraphQL, SQL, PostgreSQL, DynamoDB, MongoDB, Redis, Snowflake, Spark

Languages, Cloud & Tools: Python, JavaScript, Java, Scala, Rust, C++, Playwright, Git, Docker, Jenkins, CI/CD, AWS (Lambda, S3, API Gateway), GCP

CERTIFICATIONS

AWS Certified Solutions Architect – Associate | 12/2023 – 12/2026