

DANIEL CHOI

SOFTWARE ENGINEER

META

Software Engineer

NEW YORK, NY

Sep 2021 – Feb 2023

INSTAGRAM ANDROID REELS: SINGLE-TRANSCODE UPLOAD

- Drove a major client infrastructure update combining 1) stitching video clips and 2) applying filters/stickers into a single rendering pass, eliminating a lossy/slow video encode to an intermediate stitched mp4
- Led project management, development, and rollout for the deprecation of legacy filter/sticker models to integrate new in-house multi-track video decoding, audio encoding, and GL rendering stacks with IG's upload infra
- Achieved -6.3% publish ready latency, +0.09 ML-predicted MOS quality
- Bootstrapped QA test plans covering all creation entry/exit points to identify/mitigate failures introduced by IG Reels Merge in mid-2022
- Won the weekly engineering-wide IG Spark award for business impact

FACEBOOK COMMUNITY CHATS

- Introduced Hack PHP backend logging and unit test coverage for the toggling of chat notification snoozing/muting on iOS and Android

TOAST

Software Engineer

BOSTON, MA

Oct 2017 – Jul 2021

TOAST NOW: INBOX FOR ONLINE ORDERS DURING COVID

- Shipped a React frontend, a Node/GraphQL BFF microservice, and Play backend controllers to unblock online ordering amid COVID lockdowns without requiring Toast hardware to centralize order processing
- Reverse-engineered internal tooling to unblock authentication, service discovery, and deployment to AWS following mass layoffs in early 2020
- Set up dashboards and alerts using Datadog, Splunk, Sentry, and Apollo Graph Manager to monitor app health for over 2400 restaurants

RESTAURANT CONFIG PAGE: ARCHITECTURAL/VISUAL REDESIGN

- Reconfigured the manager web portal to support Tailwind CSS styling
- Onboarded and led a new engineer in writing and debugging SQL database queries from a new config service; integrated it with the team's new React frontend by shipping a new Node/GraphQL BFF microservice

ORDER UI: MODEL-VIEW-INTENT KOTLIN REFACTOR

- Refactored the menu modifier Android UI to MVI architecture in Kotlin; increased JUnit test coverage of the 1200-line reducer from 0% to 94%
- Articulated and executed a performance monitoring strategy leveraging UI telemetry and Splunk; supported the MVI refactor's rollout to 100%

CONTACT INFO

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EDUCATION

CORNELL UNIVERSITY

College of Arts & Sciences, 2014

- Computational Biology
- Bachelor of Arts

SKILLS

- JavaScript
- TypeScript
- Java
- Kotlin
- Android
- Python 3
- React
- Node.js
- SQL
- AWS
- REST
- GraphQL
- Git
- Splunk
- G Suite
- Photoshop

PERSONAL PROJECTS

[METROFEED](#)

Raspberry Pi + LED matrices for weather graph and transit ETAs

[INKTOBER 2022](#)

JavaScript + p5.js visualizers for 60-sec remixes made in Ableton

[RACCACOOONIE-BOT](#)

Raspberry Pi + Arduino robot receiving Wear OS sensor data

[ATARI TEMPEST LITE](#)

JS clone of classic 1981 arcade game drawn only using vectors

[CITYSOUNDS](#)

React/Rails clone of Bandcamp featuring CRUD album upload