DANIEL CHOI   SOFTWARE ENGINEER

META   NEW YORK, NY
Software Engineer   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 one rendering pass, eliminating a slow/lossy video encode to an intermediate stitched mp4 video file
- Achieved –6.3% publish ready latency, +0.09 predicted MOS quality
- Bootstrapped own test plans covering all creation entry/exit points to identify/prioritize blockers introduced by IG Reels Merge in mid-2022
- Led project management, development, and rollout for the deprecation of legacy filter/sticker models to integrate next-gen multitrack video decoding, audio encoding, and GL rendering stacks with IG upload infra
- 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   BOSTON, MA
Software Engineer   Oct 2017 – Jul 2021

TOAST NOW: INBOX FOR ONLINE ORDERS

- 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; refined and implemented responsive card-based UI mockups in React
- 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 via 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

RACCACOONIE-BOT
Raspberry Pi + Arduino robot receiving Wear OS sensor data

ATARI TEMPEST LITE
JS clone of classic 1981 arcade game drawn using 3D vectors

CITYSOUNDS
React/Rails clone of Bandcamp featuring CRUD album upload