

# 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 COVID-ERA 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
- 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