

# DAN CHOI

## SOFTWARE ENGINEER

✉ [ygdanchoi@gmail.com](mailto:ygdanchoi@gmail.com)  
🌐 [ygdanchoi.com](http://ygdanchoi.com)  
🌐 [ygdanchoi](https://www.linkedin.com/in/ygdanchoi)  
🌐 [ygdanchoi](https://www.github.com/ygdanchoi)  
📞 615-477-3291

## EDUCATION

🎓 **Cornell University, 2014**  
College of Arts & Sciences  
– Computational Biology  
– Bachelor of Arts

## SKILLS

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

## WORK EXPERIENCE

### META

Software Engineer

NEW YORK, NY

Sep 2021 – Feb 2023

#### INSTAGRAM REELS ANDROID, SINGLE TRANSCODE UPLOAD

Upload latency/quality upgrade eliminating 1x encode to temp video file

- Engineering lead for client-side architectural updates to merge clip-stitching and filter-burning steps by integrating new in-house multi-track video decoding, audio encoding, and GL rendering stacks
- Achieved -6.3% publish ready latency, +0.09 predicted MOS quality
- Bootstrapped QA test plans covering all creation entry/exit points to identify/mitigate failures caused by IG Reels Merge in mid-2022
- Won weekly engineering-wide IG Spark award for business impact

#### FACEBOOK COMMUNITY CHATS

Large-scale Messenger chat rooms managed by Facebook Group admins

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

### TOAST

Software Engineer

BOSTON, MA

Oct 2017 – Jul 2021

#### TOAST NOW ORDERS

Freemium “inbox” app to manage cashless online orders amid COVID-19

- Rewrote React/React frontend in TypeScript; swapped out fake data for live calls to external-facing Orders API and legacy backend via intermediary Node/GraphQL backend-for-frontend microservice
- Enabled online ordering for 2.4k restaurants amid COVID lockdowns
- Reverse-engineered internal tooling to unblock authentication, service discovery, and deployment to AWS following mass layoffs
- Built frontend and API endpoints for online ordering toggle/snooze feature; ported to manager web portal and greenfield Android app

#### ORDERS WORKFLOW CONFIG V2 REDESIGN

Overhaul of static Play Framework web page to multi-tier architecture

- Onboarded and led new engineer writing SQL queries from domain service; implemented intermediary BFF layer using Node/GraphQL

#### ORDER ACTIVITY V2 REFACTOR

Overhaul of legacy “big ball of mud” code to model-view-intent pattern

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