

DAN CHOI

SOFTWARE ENGINEER

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EDUCATION

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

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 architectural updates to merge client-side 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%