

DAN CHOI

SOFTWARE ENGINEER

PERSONAL INFO

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LinkedIn

ygdanchoi

GitHub

ygdanchoi

EDUCATION

Cornell University, 2014

College of Arts & Sciences

- Bachelor of Arts
- Computational Biology

App Academy NYC, 2017

Web Dev Bootcamp

- React x Rails API
- Pair Programming

SKILLS

ANDROID DEVELOPMENT

- Java
- Kotlin
- RxJava
- JUnit
- Mockito
- Dagger

WEB DEVELOPMENT

- React
- Redux
- Rails
- JavaScript
- TypeScript
- Node.js

MISCELLANEOUS

- SQL
- Git
- Bash
- Python 3
- Agile
- Photoshop

WORK EXPERIENCE

TOAST, INC.

Software Engineer II

BOSTON, MA

2017 – Present

FEATURE WORK

- Augmented mobile-side and service-level code to allow authorized users to **bulk edit checks** after hours, fulfilling feature request with \$571k in associated annual recurring revenue (ARR)
- Wrote, optimized, and executed database migrations to enable restaurant managers to configure **required menu items** (\$370k ARR) and **menu item search** (\$340k ARR) for waitstaff
- Spearheaded development and rollout of high-priority patch release for erroneous **live kitchen ingredient counts** at 5-location restaurant chain (\$91k ARR)

CODE QUALITY

- Converted menu modifiers UI to **model-view-intent** (i.e. “Redux”) architecture in Kotlin; increased unit test coverage of 1200-line reducer function from 0% to 94%
- Converted check splitting UI to **model-view-presenter** architecture; increased unit test coverage of presenter from 0% to 71%, obsoleting over 1 hour of UI tests (3% of total)
- Split legacy ordering workflow into distinct presentation and service layers, enforcing separation of concerns; implemented **command pattern** in 5 months

PROCESS IMPROVEMENTS

- Created and analyzed **timer-based metrics** for UI responsiveness, enabling cross-team effort to identify cause of sudden +440% spike in ‘Application Not Responding’ freezes
- Led team of 3 engineers to stabilize broken **automated UI tests** for order preview UI (1-hour runtime) by standardizing Android layouts and overhauling Appium selectors
- Developed and maintained health metrics and **Splunk dashboards** to monitor app upgrades and major feature rollouts

NYU LANGONE HEALTH

Research Assistant

NEW YORK, NY

2014 – 2016

- Developed Excel VBA, AutoHotkey, and batch scripts to eliminate 100+ hours of repetitive manual data analysis work; acknowledged in **Molecular Pain** (May 2016)
- Performed rodent surgery and calcium imaging experiments to investigate prospective chronic pain treatments; published as second author in **Neuroscience** (August 2018)
- Cleaned data on cognitive effects of NSAID use; published as second author in **SJPAIN** (October 2017)