DAN CHOI
SOFTWARE ENGINEER

PERSONAL INFO

☎ **Phone**
615-477-3291

✉ **Email**
ygdanchoi@gmail.com

🌐 **Website**
ygdanchoi.com

in **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 × 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.   BOSTON, MA
Software Engineer II   *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 performance issues affecting kitchen and ordering workflows
- 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   NEW YORK, NY
Research Assistant   *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)