

# Nygel Lopez

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## Experience

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### Hypercare

Feb 2019 - Mar 2020

#### SOFTWARE ENGINEER - ANDROID

Toronto, Ontario

- Working as the sole Android engineer at a startup creating a HIPAA-compliant messaging and coordination solution for clinicians. Currently deployed at over 8 healthcare organizations.
- Rewrote the app using Kotlin and MVP/MVVM architecture, making it more robust and scalable; decreasing crash rates by as much as **64%**.
- Reduced load times and improved UI performance by caching app data using RealmDB, GraphQL and Kotlin coroutines.
- Launched several features, some of which include encrypted data caching, task list, supporting multiple organization login, GIF and inline image support and dark mode.

### Flipp

May 2017 - Aug 2018

#### SOFTWARE ENGINEER - ANDROID

Toronto, Ontario

- Worked as part of an agile team developing one of the top 10 shopping applications on Google Play with over 10 million downloads and over 100K weekly active users.
- Collaborated with designers to modernize our UI, getting us featured on the Play Store and increasing clickthrough rates by at least **10%** and usage of our Search Feature by **50%**.
- Wrote unit and instrumentation tests using Espresso and Mockito, increasing automation coverage by over **25%** and reducing manual regression testing.
- Implemented in-app ratings, resulting in a **10x** increase of user feedback and pushing our app ratings from **4.2 to 4.6**.
- Defined and collected user metrics in order to quickly iterate on features; leveraging A/B testing and feature flags on Firebase to drive engagement by at least **5%**.

## Education

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### University of Toronto

Sep 2014 - Apr 2019

#### HONOURS B.S. IN COMPUTER SCIENCE WITH DISTINCTION, MINOR IN MATHEMATICS

Toronto, Ontario

Overall GPA: 3.46

## Projects

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### BubbleGrader

Jan 2019 - Mar 2019

#### CONTRIBUTOR

Final Year Project

- Worked on an open-source solution for streamlining the process of uploading grades by creating a platform used to generate and scan bubble sheets for grading and exporting the results into digestable formats.
- Created the initial bubble sheet image generator script using JavaScript and HTML5 Canvas.
- Developed the mobile app for scanning bubble sheets using edge detection techniques with OpenCV and uploading the compressed images to a backend API using Retrofit.

### Reminder Android

Aug 2016 - Oct 2016

#### PROJECT CREATOR

38+ Stars, 24+ Forks on GitHub

- Developed a simple app adhering to Material Design guidelines that allows users to add notes and alerts.
- Uses Loader API and ContentProviders, along with SQLite databases to store and load data, allowing quick queries and ensuring responsiveness and data consistency.

## Skills

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**Computer Languages** Kotlin (Expert), Java (Expert), JavaScript (Proficient), Python (Proficient)

**Databases** RealmDB, MySQL, MongoDB

**Tools and Frameworks** Git, Firebase, Espresso, Mockito, Express.js, Node.js, Sketch