Nygel Lopez

(647) 609-2899 | tenmataylopez@gmail.com | nygellopez.com | kampijo | nygellopez

Experience

Hypercare
Software Engineer - Android
Feb 2019 - Present
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 data load times and improved UI performance by caching app data using RealmDB 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
Software Engineer - Android
May 2017 - Aug 2018
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 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%**.
- Implemented in-app ratings, resulting in a **10x** increase of user feedback and pushing our app ratings from **4.2 to 4.6.**
- Defined analytic events in order to iterate and improve our features, with A/B testing and feature flags using Firebase increasing user engagement by at least **5%**.

Education

University of Toronto
Honours B.S. in Computer Science with Distinction, Minor in Mathematics
Sep 2014 - Apr 2019
Toronto, Ontario
Overall GPA: 3.46

Projects

BubbleGrader
Contributor
Jan 2019 - Mar 2019
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
Project Creator
Aug 2016 - Oct 2016
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

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