

## EMPLOYMENT

### TextNow

[www.textnow.com](http://www.textnow.com)

Summer 2016

Android Developer

- Implemented in-app subscriptions for premium users, reducing churn rate
- Migrated the HTTP client from Apache to OkHTTP, increasing reliability of connection requests
- Implemented real-time A/B testing for UI elements throughout the application
- Implemented zero interaction email and username autofill, speeding up the signup process
- Added new advertisers into the application, increasing free-app revenue
- Created Battery and Memory usage reports using DDMS and Battery Historian
- Created Alpha Builds and Documentation for switching to Android Sync Adapters

### BABLERS Play School

[www.babblers.in](http://www.babblers.in)

(2012-2015)

#### 1. Student Database

April 2012

- Created Microsoft Access database for student data.
- Solved problem of manual data collection and calculation of ~100 students per year.
- Designed program to accurately calculate fees based on complex fee structures and produce gross totals, due installments, transport routes and tax certificates from collected data.

#### 2. Daycare

July 2015

- Created cost-effective digital time-keeping technique to note "In Time" and "Out Time" for ~50 children.
- Created Microsoft Access Database to read timecard data and calculate monthly charges accordingly.
- Replaced a manual system which had many problems in accuracy.

#### 3. Graphical Content

Repeatedly

- Final product had higher quality with complete control over content at cheaper price.
- Designed books, posters and class photos for students with CorelDRAW and Adobe Creative Suite
- Implemented photo watermarking techniques for brand promotion

## TECHNICAL EXPERIENCE

### Projects

- **Tenebris** <https://goo.gl/VbpQVF> **Current**  
Created Android app that improves the game of Hide and Seek by detecting player presence via Bluetooth
- **Personal Website** <http://xyanbhatnagar.xyz> **December 2015**  
Created personal website using Materialize CSS to link to my resume, GitHub and LinkedIn.
- **WatBalance** <https://goo.gl/d6DaVv> **December 2015**  
Created Android app that checks balance of University of Waterloo's Debit Card (WatCard). Creates daily limits, graphs monthly usage, creates charts, records transactions and more. Available on Play Store and GitHub.
- **W8A** <https://goo.gl/2Oalv5> **November 2014**  
Developed a proof-of-concept for the Android app "DriveDroid". This technique allowed users to carry a complete Windows installation on their phone and turn any PC into their own PC.

| Languages  | Concepts   | Frameworks/Libraries  |
|--|--|---|
| Java, C++, C, SQL, HTML/CSS<br>Racket, Shell Scripting and VBA | Networking, OOP, Encryption,<br>JSON/XML, UI Design, Databases | OkHTTP, Leanplum, HelloCharts,<br>Volley, JodaTime, Several Ad SDKs |

## MISCELLANEOUS

Student Blogger for University (September 2015 – Present)  
University of Waterloo President's Scholarship on Admission