



# Xyan Bhatnagar

Software Developer

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## Languages

Java, C++, C, SQL, HTML/CSS,  
Racket, Bash Scripting and VBA

## Frameworks/Libraries

OkHTTP, Leanplum, Robolectric, Picasso,  
Facebook, Play Services, Stetho, Ad SDKs,  
Crashlytics, Amazon AWS

## Concepts

Networking, OOP, Encryption,  
JSON/XML, UI Design, Databases

## WORK EXPERIENCE

### TextNow

<https://goo.gl/aLFha6>

Summer 2016

Android Developer

- Converted 85% of premium users to an in-app subscription mechanism, reducing churn rate
- Reduced TextNow's battery consumption by 12% on Android
- 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
- Addressed several crashes, reducing affected users by 10%
- Created Battery and Memory usage reports using DDMS and Battery Historian
- Created Alpha Builds and Documentation for switching to Android Sync Adapters

### BABBLERS 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.
- Accepts complex fee structures and produce gross totals, due installments and tax certificates.

#### 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.

## TECHNICAL EXPERIENCE

### • Tenebris

<https://goo.gl/VbpQVF>

In Development

Created Android app that improves the game of Hide and Seek by detecting player presence via Bluetooth. Combined with NFC, the game allows interesting interactions between players and the environment.

### • Personal Website

<http://xyanbhatnagar.xyz>

December 2015

Created personal website using Materialize CSS to link to my resume, GitHub and LinkedIn. Applied Javascript to create custom scroll detection for TextNow Portfolio

### • 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.

## MISCELLANEOUS

Student Blogger at University, Swimmer, University of Waterloo President's Scholarship Recipient