

Xyan Bhatnagar

Software Engineer | Computer Science Undergraduate

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WORK EXPERIENCE

Google

Fall 2017

Software Engineering Intern

Mountain View, California, USA

- Worked on WorkManager, the newest library in Android Jetpack announced at Google I/O 2018
- Prototyped the new system for executing background work on Android
- Investigated current solutions with a focus on features, ease of use and cost to system health
- Explored JobScheduler, GCMNetworkManager, FirebaseJobDispatcher and android-job

Google

Winter 2017

Software Engineering Intern

Mountain View, California, USA

- Created a bidding system from scratch for coordinating intern events at Google
- Integrated with Google Calendar, Google Maps and Mail for automatic event management
- Applied Angular for web front-end and Python + App Engine for backend

TextNow

Summer 2016

Android Developer

Waterloo, Ontario, Canada

- Created an in-app subscription system from scratch, used by 85% of premium users
- Reduced TextNow's battery consumption on Android devices by 12% per day
- Implemented email and username autofill, speeding up the signup process for 830k users

TECHNICAL EXPERIENCE

Proficient in **Android (Java), C++ and Python**. Experience in **C, Scheme, SQL, JavaScript and HTML5**.

Jarvis

Winter 2017

- Added custom hotword support to Google's Embedded Assistant SDK
- Created hotword shortcuts that automatically start any action supported by the Assistant
- Implemented concurrent multiple hotword detection using Snowboy
- Built with Raspberry Pi 3, Playstation Eye Camera and Python

WatBalance

December 2015

- Created an Android app that checks the balance of University of Waterloo's Debit Card
- Implemented Volley for network requests, HelloCharts for line charts and Joda Time
- Used by 430 students to create daily limits, graph monthly usage, record transactions and more

EDUCATION

Candidate for Bachelor of Computer Science – University of Waterloo, Class of 2020

Dean's Honor List (Winter 2018, Summer 2017), President's Entrance Scholarship Recipient

MISCELLANEOUS

Blogger (xbhatnag.com/medium), Swimmer, Tinkerer