

Xyan Bhatnagar

Software Developer | Computer Science Student

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WORK EXPERIENCE

Google

Software Engineering Intern

google.xbhatnag.com

Winter 2017

Mountain View, California, USA

- Created a web application from scratch for coordinating intern events at Google
- Created a bidding system that allowed interns to bid on their favorite events
- Added a penalty system to prevent last minute cancellations and adjust by filling empty seats automatically
- Integrated with Google Calendar, Google Maps and Mail for automatic event management
- Learned Angular for web front-end and Python + App Engine for backend

TextNow

Android Developer

textnow.xbhatnag.com

Summer 2016

Waterloo, Ontario, Canada

- Created an in-app subscription system from scratch, used by 85% of premium users
- Migrated from Apache to OkHTTP, increasing robustness of all API requests
- Reduced TextNow's battery consumption on Android devices by 12% per day
- Eliminated several crashes, reducing affected users by 10% in August 2016
- Implemented email and username autofill, speeding up the signup process for 830k users

TECHNICAL EXPERIENCE

Proficient in **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

Tenebris

tenebris.xbhatnag.com

In Development

- Created an Android game of Hide and Seek which can detect player presence via Bluetooth
- Implemented NFC, Bluetooth, and the Nearby API to interact between players and the environment

WatBalance

watbalance.xbhatnag.com

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

University of Waterloo President's Entrance Scholarship Recipient

MISCELLANEOUS

Hack The North 2016 Participant, Blogger (medium.xbhatnag.com), Swimmer, Tinkerer