

# NABIL BARAKATI

Student ID# 20616286

<http://nabil.xyz>

2B Honours Computer Science | Business Option  
University of Waterloo | Expected Graduation: Sept 2020

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## SKILLS SUMMARY

- Excellent software design knowledge of web-based systems
- Critical and analytical thinker with exceptional attention to detail
- Exceptional communication skills obtained through PM experiences
- Extremely efficient self learner with a passion for new technologies

## EDUCATION

University of Waterloo, Waterloo, ON Sept 2015 - Present

*Candidate for Honours Bachelor of Computer Science - Business Option*

Relevant Course Experience:

- Developed knowledge on different Data Structures, OOP, and Algorithms
- Acquired knowledge on algorithm efficiency and memory management
- Gained a strong understanding of statistical models and data distributions

## WORK EXPERIENCE

TribalScale, Toronto, Ontario Sept - Dec 2017

*Agile Software Engineer*

- Architected caching strategy that reduced load times upto 5x for [airmilesshops.ca](#)
- Worked alongside the Google Home team to identify and resolve guest user issues while working on NBA Trivia
- Teamed up with Amazon Pay to develop one of the first Alexa skills with purchasing capabilities before Amazon Pay was publicly released for voice integration
- Leveraged my technical knowledge on voice and chatbots to close a deal with one of the largest financial institutions in North America

Capital One, North York, Ontario Jan - April 2017

*Software Engineer - Web & Infrastructure*

- Migrated web development in-house, designed and architected web platform
- Developed fully automated CI/CD pipeline, included features such as rolling-back, archiving, cross-region replication, traffic distribution & infrastructure initialization
- Successfully cut down production deployment times by 99%
- Onboarded fully automated visual testing tool, "Visual Diff", preventing visual defects from passing through the CI/CD pipeline
- Leveraged Contentful to modularize reusable components used to modernize over 30 webpages

Flare, Toronto, Ontario July - Aug 2015

*Web & Android Developer*

- Provided consultation for the enhancement of their UI/UX on both their web and mobile applications
- Root caused and patched issues that were major blockers for their initial release

Ontario Medical Association, Toronto, Ontario May - Aug 2015

*Front End Developer - High Velocity Team*

- Designed and implemented multiple asynchronous web apps with adaptive UI
- Halved the development time for OMA Single Page Applications by developing a framework which controls the views, performs validation and submits the models

## LANGUAGE EXPERIENCE:

C, C++, Java, Python, R, .NET, SQL, Node JS, HTML5, Angular, React, CSS, Terraform, Shell Scripting, GraphQL

## TOOLS/Frameworks:

AWS, Git, Jenkins, Docker, TFS, Contentful, Ansible, Android Studio, Protractor, Mocha

## HIGHLIGHTS:

Web Development  
Automation  
Project Management  
Business Analysis  
DevOps  
Distributed Systems

## SIDE PROJECTS:

### Reachr

Activity based social-network which allows students with busy schedules to easily coordinate meetups. Developed business plan & website

### Code Name Envio

A web and mobile application used for crowdsourcing data. Designed to allow users to report issues within their vicinity with the option of upvoting events of concern.

### Visual Diff

An open source tool that allows for visual testing. Determines the amount of change that took place and passes or fails automated tests accordingly. Say goodbye to production defects!

### Rezoom - (Planning Phase)

A contextual vocal search engine. Vocally describe a position in some media (movie, book, tv show) and the system will automatically resume from their described "scene".

## Interests:

Machine Learning | Finance | Data | Cybersecurity | Web Design | Fitness | Video Games | Biology |