

NABIL BARAKATI

Student ID# 20616286

<http://nabil.xyz>

3A Honours Computer Science | Business Option
University of Waterloo | Expected Graduation: April 2020

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SKILLS SUMMARY

1. Excellent software design knowledge of web-based systems
2. Critical and analytical thinker with exceptional attention to detail
3. 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 effective algorithmic design techniques through the understanding of pragmatic and mathematical aspects of program efficiency
- Acquired a strong grasp of OOP and other software engineering principles

WORK EXPERIENCE

Athos, Redwood City, California May - Aug 2018

Software Engineer - Data Processing

- Updated web app allowing users to authenticate against various network types and configurations, greatly improving UI/UX and authentication success rate by 30%
- Significantly enhanced security by developing a new security layer using user metadata to authenticate requests, preventing unauthorized access to several APIs
- Leveraged user workout data to create a granular logging system regarding missing metrics and corrupt data, greatly increasing visibility and debugging capabilities
- Reduced new client on-boarding development hours by over 98% through bootstrapping a pipeline involving several SQL scripts

TribalScale, Toronto, Ontario Sept - Dec 2017

Agile Software Engineer - Web & Voice

- Architected distributed cache that reduced load times up to 5x for airmilesshops.ca
- Worked directly with Google to resolve guest user access issues in *Google Home* while developing NBA Trivia
- Teamed up with AWS to enhance the integration between Amazon Pay and Voice to launch 1800-Flowers as one of the first voice apps to integrate with Amazon Pay
- Represented TribalScale as the "Voice Expert" to close a deal with RBC

Capital One, North York, Ontario Jan - April 2017

Software Engineer - Web & Infrastructure

- Architected entire web platform infrastructure used to host the .ca domain allowing for the migration of web development in-house, serving over 1.5M users monthly
- 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% using AWS/Jenkins

Flare, Toronto, Ontario July - Aug 2015

Web & Android Developer - Web Team

- Provided consultation for UI/UX enhancements on both web and mobile apps
- Remedied major production launch blockers by patching API request defects

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 dev time for SPAs by developing a library based upon the MVC pattern

LANGUAGE EXPERIENCE:

C, C++, Java, Python, SQL, noSQL, Node JS, Angular2, React, CSS, Terraform, Shell Scripting, GraphQL

TOOLS/Frameworks:

AWS, GCP, Git, Jenkins, Docker, Ansible, DataDog, Graylog, Mode, Protractor

HIGHLIGHTS:

Web Development
Automation
Project Management
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. Integrated into Capital One's release pipeline.
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 | Big Data | Cybersecurity | Web Design | Fitness | Video Games | Biology |