NABIL BARAKATI Student ID# 20616286   http://nabil.xyz

4A Honours Computer Science | Business Option
University of Waterloo | Expected Graduation: April 2020

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SKILLS SUMMARY

- Excellent software design knowledge of web-based systems
- Critical and analytical thinker with exceptional attention to detail
- 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:

- Strong understanding of effective and efficient algorithm design paradigms
- Experienced with database management systems and design methodologies
- Obtained fundamental knowledge of network architectures and protocols
- Functional understanding in building resilient, secure and scalable systems

WORK EXPERIENCE

Lifion, New York City, New York   Jan - May 2019
Infrastructure Engineer - Platform Team

- Led the organizational shift to Canary Deployments through Kubernetes and Envoy
- Reduced operational cost by $500k yearly (AWS resources, monitoring and engineering costs) by upgrading staging environment to use Canary Deployment
- Enabled engineering teams to rapidly prototype new features by establishing self-service pipeline parallelizing deployment of both production and canary services

Athos, Redwood City, California   May - Aug 2018
Software Engineer - Data Processing

- Developed network authentication web app for Athos Athlete Hub device which improved connection success rate by 30% and also greatly improved UI/UX
- Significantly enhanced security by developing a new access control layer restricting access to facilities' networks; preventing unauthorized access to restricted APIs
- Created granular logging system greatly increasing monitoring capabilities
- Reduced new client onboarding engineering hours by 90% through designing and implementing a pipeline involving several SQL scripts

TribalScale, Toronto, Ontario   Sept - Dec 2017
Agile Software Engineer - Web & Voice

- Architected distributed cache that decreased load times by 5x for airmilesshops.ca
- Worked directly with Google while developing NBA Trivia for the *Google Home*
- 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 web platform infrastructure, serving over 1.5M users monthly
- Developed fully automated CI/CD pipeline. Included features such as rolling-back, archiving, cross-region replication & infrastructure initialization
- Successfully cut down production deployment times by 95% using AWS/Jenkins

Ontario Medical Association, Toronto, Ontario   May - Aug 2016
Front End Developer - High Velocity Team

- Halved the dev time for SPAs by developing a library based upon the MVC pattern
- Designed and implemented multiple asynchronous web apps with adaptive UI

LANGUAGE EXPERIENCE:
C, C++, Java, Python, SQL, Node JS, Angular, Terraform, Shell Scripting, GraphQL

TOOLS/FRAMEWORKS:
AWS, GCP, Kubernetes, Git, Jenkins, Docker, Ambasador, Envoy, Istio

HIGHLIGHTS:
Web Development
Automation
Project Management
Infrastructure
Distributed Systems
Networks
Security

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!

MedAid
A health management application used to help remind people to take their medication, identify conflicts, refill medications, and share a centralized source of medical history to a doctor over bluetooth.

Interests:
Machine Learning | Big Data | Cybersecurity | Web Design | Fitness | Video Games | Biology