

Dema Abu Adas

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Technical Skills:

Programming Languages: C, Python, HTML/CSS, Java, JavaScript & Swift

Frameworks: React/React Native, Node JS, RxSwift, MPI

Operating Systems: Windows, Mac OS, Linux (Ubuntu & Debian), iOS

Team Development: Agile, Scrum, Paper prototyping, Pair Programming

Software: Git, Adobe Photoshop, VirtualBox, Android Studio & XCode, Docker, CircleCI

Technical Work Experience:

Data Science Intern

Pagerduty, Toronto, ON

January 2020 – Present

- Working on the data science core team

Extreme Blue Technical Intern

IBM, Markham, ON

May 2019 – August 2019

- Worked within a team of 4 interns and navigated our own agile processes such as sprint planning and retrospectives
- Developed a proof of concept for a tool that helps modernize applications from running on traditional WebSphere Application Server to WebSphere Liberty
- Learned about Java EE standards, as well as developed sample applications that utilize Enterprise Java Beans and Servlets

Mobile Developer Co-op

Wave, Toronto, ON

May 2018 – December 2018

Swift

- Created an abstracted GraphQL network layer using Apollo as well as an abstracted network layer for REST APIs with services that leverage RxSwift and RCT Bridge Module
- Built a dynamic environment switcher using UIKit that provides an easy and efficient way to test against different environments without reloading the app
- Constructed unit tests for each network provider and service using XCTest and RxTest

JavaScript/React Native

- Rebranded custom UI components to fit new typography, colors, & fonts, and redesigned several user interfaces for an updated and enhanced user experience
- Cleared technical debt by refactoring and replacing deprecated components to get cleaner code

Software and Hardware Developer,

Plastic Mobile, Toronto ON

June 2017 – August 2017

- Within the innovation lab, built a Google assistant welcome application which gave a summary of the weather and location using the Google Cloud Platforms, Node.js, and api.ai
- Maintained and developed the codebase for a robot using Java, and the Google Tango API
- Gained knowledge in TCP programming in Java, by rewriting the socket & server socket and enhancing its overall efficiency and code usability

Presentations & Public Speaking:

The Adventures of a Python Script! [Poster Presentation]

PyCon US, Cleveland OH, USA

May 2019

The Adventures of a Python Script! [Talk]
PyCon Canada, Toronto, ON

November 2018

Build an Amazon Alexa App! [Workshop]
Society of Computing & Information Science, Guelph, ON

October 2017

Community Engagement & Volunteer Experience:

VP Internal, Society of Computing and Information Science

April 2019 – Present

Co-Organizer, !!Con West

August 2018 – Present

Director of Events, Canadian Undergraduate Software Engineering Conference

April 2018 – January 2019

Co-founder and Leader, Guelph Women in Computer Science

January 2018 – April 2018

Head Delegate, Canadian Undergraduate Software Engineering Conference

April 2017 – January 2018

Representative, School of Computer Science Curriculum Committee

September 2017 – April 2018

Community Liaison, Society of Computing and Information Science

September 2017 – December 2018

Hackathon Competitor

Hack Western IV, University of Western Ontario, London ON

November 2017

Hack the North, University of Waterloo, Waterloo ON

September 2017

NASA Space Apps Hacks, Toronto ON

April 2017

Guelph Hacks, University of Guelph, Guelph ON

March 2017

Education:

Bachelor of Computing, Software Engineering & Minor in Mathematics (Co-op)

2016 - Present

University of Guelph, Guelph ON

Expected graduation 2021

- Relevant courses include Algorithms, Computer Networks, and Parallel programming

University Work Experience:

Undergraduate Teaching Assistant

School of Computer Science, University of Guelph, Guelph ON

September 2019 – Present

- Providing assistance for CIS*2430 (Introduction to Object Oriented Programming) via 1:1, office hours
- Help teach students object oriented principles as well as Java tools such as Ant, and JUnit

Undergraduate Research Assistant

School of Computer Science, University of Guelph, Guelph ON

January 2018 – April 2018

- Investigated current IoT technology for smart farms and methods of tracking cattle by various technologies

Academic Cluster Leader

Student Housing Services, University of Guelph, Guelph ON

August 2017 – April 2018

- Demonstrated leadership in a cluster of 50 students in the BComp. degree
- Assisted students' transition into university by running academic events for core subjects such as study sessions

Undergraduate Teaching Assistant

School of Computer Science, University of Guelph, Guelph ON

September 2017 – December 2018

- Provided assistance for CIS1200 students (Introduction to Computing) via office hours
- Answered discussion board for assignments that included Microsoft Office and JavaScript