University of Waterloo

Co-operative Work Terms

Riyad Khan
20712060
2B Mechatronics Engineering, Honours, Co-operative Program

Work Term	Employer	Evaluation
Jan - Apr 2019	DigitalEd	EXCELLENT
	Divisional Office	
	Waterloo Ontario Canada	
	Quality Assurance Analysts	
Sep - Dec 2019	Maplesoft	EXCELLENT
	Divisional Office	
	Waterloo Ontario Canada	
	Quality Assurance Analyst	
May - Aug 2020	The Economical Insurance Group	EXCELLENT
	KW Offices	
	Waterloo Ontario Canada	
	Quality Assurance Specialist	

Planned Future Work Term(s)
Jan - Apr 2021
Sep - Dec 2021
May - Aug 2022

Riyád Khan

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Mechatronics Engineering • github.com/rr3khan • personal site: bit.ly/rr3khan • rr3khan@uwaterloo.ca

Skills Summary

- Tech: HTML, CSS, Javascript, Django, Python (Pandas, Beautifulsoup, Matplotlib), C++, SQL(SQLite), MATLAB, Git, Bitbucket, Github, Wix, Confluence, Jenkins, Jira.
- Tools: Google Analytics, REST APIs, Adobe Lightroom, Gimp, Blender.
- Courses: Digital Computation, Data Structures and Algorithms, Computer Structures and RTS.

Projects

- Analyzed sales data with Pandas and SQL queries for Shopify's Data Science Challenge.
- Webscraped over 200 data entries from the website myanimelist using Python's Beautifulsoup library then created an anime recommender using Python's sklearn library.
- Implemented simple machine learning algorithms (Linear Regression and Support Vector Machines) to analyze and predict the performance of Bitcoin.
- Utilized Python's OpenCV library to calculate the dimensions of objects in images.
- Created a CRUD application to track indie comic book sales using Django.
- Constructed a quote generator using Javascript that generates random quotes using a third-party API.
- Analyzed the accessibility of different CAPTCHA systems for a work term report.
- Collaborated with a virtual team on a consulting research project for Sunshine Coast Credit Union on the future of Canadian credit union systems.
- Contributed to the open source project opsdroid (chat bot) by converting unittests to pytests.

Work Experience

Quality Assurance Co-op / DigitalEd   Jan – Apr 2019

- Created documentation for QA test cases, build deployment on the Google Cloud Platform as well as collaboratively developed a Gherkin feature file style guide Confluence page.
- Evaluated the quality of the Möbius and Maple platforms (math engine for online learning) on macOS, Linux and Windows systems by reporting and tracking over 300 tickets in Jira.
- Designed Gherkin feature files for use in the automation of test cases.
- Worked with Git to upload feature files to Bitbucket for peer review as well as to deploy test instances on the GCP in coordination with the Site Reliability Engineering team.

Quality Specialist Remote Co-op / Economical Insurance group   May – Aug 2020

- Automated the retrieval of test results from the Zephyr for Jira API and organization of test results into excel spreadsheets with Python.
- Increased testing suite coverage by creating and running automated tests using selenium.
- Utilized SQL queries to extract, transform and load data from MySQL databases.
- Deployed testing environments using Jenkins.

UNIVERSITY OF WATERLOO
UNOFFICIAL GRADE REPORT

Riyad Khan
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2B Mechatronics Engineering, Honours, Co-operative Program

Fall 2020

MTE	200B	Seminar	
MTE	203	Advanced Calculus	
MTE	204	Numerical Methods	
MTE	220	Sensors and Instrumentation	
MTE	241	Intro:CompStruct&Real-TimeSys	
SYDE	252	Linear Systems & Signals	
WKRPT	200	Work-term Report	*

*Degree Requirement, Not in Average

Term Average: N/A   Decision:

Spring 2020

COOP	3	Co-operative Work Term	CR
PD	11	Technical Writing	CR

Term Average: N/A   Decision:

Winter 2020

MTE	200A	Seminar	
MTE	201	Exp. Meas. & Stat. Analysis	87
MTE	202	Ordinary Differential Equation	80
MTE	219	Mechanics of Deformable Solids	72
MTE	262	Microprocessors Digital Logic	88
SYDE	182	Physics 2 (Dynamics)	84
MSCI	211	Organizational Behaviour	95

Term Average: 84.33   Decision: Excellent standing

Fall 2019

COOP	2	Co-operative Work Term	CR
PD	21	Eng'g Wrkplace Skills II:	CR

Term Average: N/A   Decision:

Spring 2019

MATH	118	Calculus 2 for Engineering	65
MTE	100B	Seminar	
MTE	111	Structure & Prop. of Materials	79
MTE	119	Statics	85
MTE	120	Circuits	74
MTE	140	Algorithms and Data Structures	80

Term Average: 76.36   Decision: Good standing

Winter 2019

PD	20	Eng'g Workplce Skills I:	CR
COOP	1	Co-operative Work Term	CR

Term Average: N/A   Decision:

Fall 2018

MTE	100	Mechatronics Engineering	86
CHE	102	Chemistry for Engineers	78
GENE	121	Digital Computation	67
MATH	115	Linear Algebra (Eng)	67
MATH	116	Calculus 1 for Engineering	62

Term Average: 73.27   Decision: Good standing