ALEXANDRE
GRANZER-GUAY

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PROFILE

4th year B.A.Sc. in Electrical Engineering with a strong interest in Software Development, Big Data Analytics, Machine Learning and Circuit Networks. Successfully completed courses in Computer Programming and Architecture, MATLAB Optimization, Circuit Networks and Electromagnetics. Leader with strong capabilities of generating innovative ideas, by acquiring new knowledge and solving problems efficiently and creatively.

EDUCATION

Bachelor of Applied Science in Electrical Engineering   2014- 2019
Major: Electrical Engineering with 12 months Internship Experience   (Anticipated date of graduation)
Queen's University

Baccalauréat Série Scientifique (with honours)   May 2014
Specialty: Mathematics
Lycée Claudel

TECHNICAL SKILLS

Programming languages:
Knowledge of C/C++, Python, HTML, CSS, Java, Javascript, SQL
Experience with Data Analytics and Machine Learning packages/languages – R, MATLAB, TensorFlow, Keras, Torch, Theano, SPSS, RapidMiner
Experience with VHDL and Assembly
Ability to quickly pick-up new computer programming languages and packages

Experience in visual design with 3ds Max, MAYA and Solid Edge
Experience with PCB and Circuit Modelling Software – Agilent ADS and PSIM/SPICE
Experience with computational and modelling software – MATLAB and R
Experience with formal writing in LaTeX

Relevant Engineering Faculty Programming Courses: Introduction to computing programming for engineers, Fundamentals of Information Structures

TECHNICAL EXPERIENCE

Music Creation Tool - TensorFlow   Present time
Personal Project
Creating music with Recurrent Neural Networks (RNN) from MIDI files
- Goal: Build a tool that takes for input a set of MIDI files for training and outputs a new computer-generated song in MIDI format
- Use of RNN in combination with Long Short-Term Memory

Personal Assistant Tutorial – NodeJS Demo   2017
Personal Project
Developed an easy-to-use personal assistant tutorial
- Wrote clear documentation and support tools for end-user
- Application built with NodeJS and uses Watson APIs

Backend Developer – Smart Restaurant Suggestion Webapp   2017
Hack for ConUHacks
Developed a "smart" restaurant suggestion webapp
- Built Back-end to track preferred restaurants and make better suggestions
- Use of various APIs for NLP, Sentiment analysis and other functions

WORK EXPERIENCE

Software Developer Intern – Centre for Advanced Computing   2017 – Present time
- Developed proof-of-concept and production software under short deadlines
- Demonstrated strong teamwork skills through clear communication, unique interpersonal skills and leadership
- Cultivated and maintained strong business relationships with various clients
- Hired and trained new team members through documentation, tutorials and hands-on lessons
- Developed applications using various languages based on the application's needs. Capable of quickly learning and applying unfamiliar languages

Teacher Assistant – Digital Systems   2016
- Help students understand and navigate the VHDL Software while applying course knowledge
- Valuable course-related knowledge to better effectively teach concepts and convey ideas to students

Founder – NEOTERIK EVENTS   2015
- Started an event promotion company and organized trips to Montreal events from Kingston
- Oversaw the organization and booking of bus and equipment
- Developed strong business-oriented interaction skills

OTHER ACTIVITIES

- Visit www.alexandregranzerguay.com to learn about all my current projects
- Extensive sport camps and ski instruction work experience, and completion of Camp Kanawana leadership training program