

Marko Mijovic

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EDUCATION

UNIVERSITY OF CALGARY
MENG IN SOFTWARE ENGINEERING
May 2021-Ongoing | Calgary, AB

UNIVERSITY OF CALGARY
BACHELOR OF SCIENCE
Sep 2016-May 2021 | Calgary, AB
Major: Mechanical Engineering
Minor: Mechatronics
cGPA: 3.87 / 4.0

SKILLS

TECHNICAL SKILLS

Proficient

Python3 • Java • Javascript(ES6)
React / Redux • HTML • CSS3 • Git

Familiar

PyTorch / Scikit • C • MongoDB • Express.js
GraphQL • Node.js • MATLAB • Docker

SOFT SKILLS

Outstanding

Self-Learning • Hardworking • Leadership
Communication • Public Speaking

WORK EXPERIENCE

TC ENERGY | RISK AND ENGINEERING STRATEGY INTERN

May 2019 – Aug 2020 | Calgary, AB

- Data analysis, visualization, and reporting with the Python programming language
- Automation of repetitive day-to-day tasks with simple data pipelines
- Received outstanding feedback for innovative problem solving skills

HEATLINK | ASSISTANT PRODUCTION MANAGER

May 2018 – Aug 2018 | Calgary, AB

- Design of a cam and follower fatigue-inducing mechanism
- Empirical sensor data acquisition and data analysis in MATLAB
- Technical documentation of warranty claims

TECHNICAL PROJECTS

SORTING VISUALIZER | WEBSITE, GITHUB

Winter 2021 | Calgary, AB

- React web application built with Node.js in which the user can visualize selected sorting algorithms
- Implementation of Selection Sort, Bubble Sort, Insertion Sort, Merge Sort, and Quick Sort

BEARING FAILURE ANALYSIS | GITHUB

Fall 2020 | Calgary, AB

- Development of machine learning bearing failure prediction algorithms using PyTorch/Fastai and Scikit
- Statistical data analysis of failure records using Pandas, Numpy, and SQLite3
- Collaboration in a multidisciplinary team
- Presentation at the annual capstone fair

SOCIAL MEDIA MOCKUP | GITHUB

Winter 2021 - Ongoing | Calgary, AB

- A Twitter-like mock-up web application inspired by an entrepreneurial idea of an online hub focused on investment discussion
- React front end, Node/Express back end, MongoDB database and GraphQL API implementations for document data format

WORDNET DIGRAPH | GITHUB

Fall 2020 | Calgary, AB

- JAVA application that creates a WordNet digraph from a Lexicon
- Part of the self-learning initiative on advanced data structures and algorithms offered by Princeton University

EXTRACURRICULAR ACTIVITIES

SCHULICH UAV | VP MECHANICAL ENGINEERING

Spring 2018-Spring 2020 | Calgary, AB

- Mechanical engineering lead responsible for design, analysis and manufacturing of competition ready un-manned aerial vehicles (UAVs)
- Extensive experience with flight, material and structural data acquisition and analysis
- Hands on experience with composite materials such as carbon fiber and composite manufacturing methods
- Project management and leadership experience in a multidisciplinary team of 20+ members

PERSONAL INVESTING

Winter 2019 - Ongoing | Calgary, AB

- Value based personal investing with the help of software tools to automate financial research and optimize risk/reward