MARKO MIJOVIC

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EDUCATION

Schulich School of Engineering	*September 2016 - Present*
Fourth Year Undergraduate	*Overall GPA: 3.90/4.00*

Bachelor of Science - Department of Mechanical Engineering, Minor in Mechatronics

Dean list, Jason Lang Award, David F. Duncan Memorial Award

TECHNICAL STRENGTHS

Computer Languages	Python, JavaScript, Java, C#, C, SQL, MATLAB
Software & Tools	PowerBI, Git, Ansys, Solidworks, Microsoft Office

WORK EXPERIENCE

Risk, Engineering Strategy and Technology Development — May 2019 - September 2020

TC Energy, Midstream Energy Industry and Power Generation

· High volume data analysis and development of various data analysis algorithms using the Python programming language
· Static and dynamic map plotting tool in Java that utilizes Microsoft's GeoMap API
· Automation of repetitive day-to-day tasks that save dozens of the team's working hours every year
· Effective and unique data visualization with Python's Matplotlib, Numpy, Pandas and SQlite3 libraries and PowerBI

Assistant Production Manager — May 2018 - August 2018

HeatLink Group of Companies, HVAC

· Design of a cam and follower fatigue-inducing mechanism used to obtain and analyze product fatigue data
· Empirical testing of new equipment prototypes through sensor data acquisition and analysis in MATLAB
· Hands-on experience with power tools and some heavy-duty machinery

RELEVANT PROJECTS

Sorting Algorithm Visualizer — *Website, GitHub*

JavaScript, React, HTML5, CSS3

· React web application in which the user can visualize selected sorting algorithms
· Implementation of Selection Sort, Bubble Sort, Insertion Sort, Merge Sort, and Quick Sort

Tournament Bracket Creator — *GitHub*

C#, SQL

· Comprehensive C Windows applications that allows the user to create a single elimination tournament bracket
· Front end window's form GUI and back end SQL, CSV/Txt data access and storage procedures

8-Puzzle Solver — *GitHub*

Java

· Java solver of the sliding 8-Puzzle problem using the A* search algorithm
· Implementation of the priority queue data type with the binary heap data structure

Financial Dashboard
Python   [GitHub]

· Python web application which shows revenue, income, ebitda, and eps public data for a selected company
· Obtains the public financial data from financialmodelingprep's API service

Canadian Weather Data
Python, SQL   [GitHub]

· Python script that scrapes, analyzes, and stores Canadian historical weather data
· Automated SQL data access/storage with sqlite3 python library and SQL stored procedures

Schulich UAV   September 2017 - April 2020
VP Mechanical Engineering   [Website]

· Mechanical engineering lead responsible for design, analysis and manufacturing of competition ready unmanned 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

INTERESTS

· Coding, Aerospace, Value Investing, Stock Market
· Soccer, Swimming, 60s-90s (Beatles, Pink Floyd, Elton John)/Blues (BB King)/Techno/Trap