Myles Borthwick

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Calgary, AB

Versatile and adaptable engineering graduate with a keen interest in software design and development. Recognized for public speaking and team leadership, with project experience in both backend and frontend development. As a creative problem-solver that thrives in diverse team environments, I pride myself on my strong work ethic and my commitment to excellence as both an individual and a team member. I am a reliable and diligent worker with experience in professional lab environments, engineering design, software, medical research, sales, tourism, and the food industry.

EDUCATION

M.ENG. - SOFTWARE ENGINEERING (2020-2021)
University of Calgary

B.SC. - MECHANICAL ENGINEERING (2014-2019)
University of Saskatchewan

KEY SKILLS

Experienced Team Leader • Object Orientated Programming (OOP) • Public Speaking • Agile Project Management
Software Development • Machine Learning • Testing and Debugging • Technical Writing • Adaptive Learner
Mechanical Design • Excellent Interpersonal Skills • Conflict Resolution

TECHNICAL SKILLS

- **Programming Languages**: Java, Python, C, C++, C#, HTML5, CSS, JavaScript
- **Web Technologies**: React, Rest API, Django, Node.js, Spring, .Net, Apache Spark, TensorFlow
- **Database**: MySQL, MongoDB, NoSQL
- **Testing**: JUnit, Mockito, Selenium
- **DevOps:** Agile, Git, Gradle, Docker

PROJECTS

M.Eng. Capstone Industry Project– Developed a Java Spring Web Service Application for Pason Systems

- Created a RESTful web service matching client specifications and functionality
- Implemented authentication and authorization tools for application security
- Performed application testing using unit and integrated testing procedures
- Employed Agile project management methodology
- Managed code development and versioning through GitHub

B.Sc. Capstone Design Project – Designed and developed a Low-Cost Replicable Solar Water Heater for application in a Mozambique maternal waiting home.

- Developed iterative theoretical heating models within Excel
- Modeled heating system within SolidWorks and created working drawings for complete system sourcing and construction
- Performed life-cycle assessment, risk analysis, material selection and system control analysis
- Built scaled prototype for testing purposes
- Collaborated with a multidisciplinary group of Medical and Engineering students

WORK EXPERIENCE

Pizza of Waterton/Pearls Cafe, Waterton AB
Evening Supervisor, Seasonal 2016-2019, 2021

- Trained new employees
- Organized and led kitchen staff during peak hours
- Worked calmly and efficiently during high stress rushes
- Worked independently during late night restaurant events

Blakiston & Company, Waterton AB
Rental Operator, Seasonal 2017-2019

- Assisted in the construction and design of new storefront and interior
- Created designs for company apparel and posters
- Sold recreational watersport and electric bike rentals
- Organized large customer groups
- Performed safety briefings on rental equipment
- Repaired defective paddleboards, kayaks and electric bikes

University of Calgary, Calgary AB
Research Assistant, May-October 2015

- Awarded best presentation by NSERC (Natural Sciences and Engineering Research Council)
- Presented graduate research at the Banff Biomedical Engineering conference
- Produced a formal lab abstract for publication
- Analysed measured data using Excel and MATLAB
- Aided in creating a reliable testing procedure
- Assisted in surgical procedures necessary for muscle testing

AWARDS & ACCOLADES

- **Led evening kitchen staff through record breaking summer in profit**
  April-October 2021
- **Presented research results at 16th Annual Biomedical Conference in Banff**
  November 2015
- **Abstract published in JURA (Journal of Undergraduate Research in Alberta)**
  September 2015
- **Recipient of NSERC Presentation Award at the University of Calgary**
  August 2015

HOBBIES & INTERESTS

Climbing • Hiking • Snowboarding • Biking • X-Country Skiing • Soccer • Volleyball • Arduino • Graphic Design • Game Dev • Travel

*References Upon Request