MATTHEW WRIGHT

3A Systems Design Engineering
✉ mjgwrigh@uwaterloo.ca
📱 289-208-3683
⌨ github.com/mattjgw

SKILLS

Languages: Python, JavaScript (ES6), Java, SQL, HTML/CSS, MATLAB/Octave, C/C++

Tools/Frameworks: Django, React/Redux, PostgreSQL, MySQL, AWS, MongoDB, Linux, Bash, Git, Selenium, Webpack

Design: User-Centered Design, Iterative Design, Rapid Prototyping, User Personas

EDUCATION

University of Waterloo, 2016 – 2021
Candidate for Bachelor of Applied Science in Systems Design Engineering
Relevant Courses:
- Data Structures and Algorithms
- Human Factors in Design
- Digital Systems

Certificate in Machine Learning
Stanford University – Coursera

AWARDS

Arthur F. Church Award
$10,000 scholarship for outstanding contribution to the community

President's Scholarship of Distinction
$5,000 scholarship awarded to students with a +95% high school average.

International Experience Award
$1,500 scholarship for students with a +80% GPA who spend a semester abroad

INTERESTS

NBA, Ping Pong, Weightlifting, Pool, AI/Machine Learning, Sailing, Kendama

EXPERIENCE

Full Stack Developer, Zanbato LLC   **Jan 2019 – May 2019**
Mountain View, California, USA
- Developed Django web application to support an SEC commissioned trading system for institutionally sized blocks of private equity
- Championed design and implementation of client management feature which increased broker activity by 165%
- Key contributor in backend refactorization that reduced codebase by 10%
- Enhanced and maintained React/Redux based frontend
- Developed automated end to end tests using Selenium Webdriver
- Engaged in user research and product ideation

Data Engineer, EllisDon   **May 2018 – Aug 2018**
Mississauga, Ontario, Canada
- Developed pipeline for migrating data from third party APIs into cloud-based data lake and data warehouse using Python, AWS, and MySQL
- Deployed ETL processes using AWS EC2, Lambda, S3, and RDS
- Built machine learning model to predict employee turnover using multinomial logistic regression, tailored algorithm to improve accuracy by 20%
- Collaborated with interdisciplinary team in an Agile development environment

Software Engineer, Dematic Limited   **Sept 2017 – Dec 2017**
Mississauga, Ontario, Canada
- Led controls software team for two $100,000+ projects, completing all projects on schedule and on budget
- Developed PLC programs using RSLogix 500 and Studio 5000
- Managed an interdisciplinary team of millwrights and electricians while on-site

Electrical Controls Designer, Dematic Limited   **Jan 2017 – April 2017**
Mississauga, Ontario, Canada
- Designed state of the art materials handling systems for Fortune 500 clients
- Drafted wiring schematics using AutoCAD Electrical
- Spearheaded electric estimation for $1,000,000+ project, won the contract

Lifeguard and Swim Instructor, City of Burlington   **2015 – 2016**

Cabin Leader/Sailing Instructor, Camp Mini-Yo-We   **2014 – 2017**

PROJECTS

Tangelo, JavaScript, React
- Developed presentational table component using React
- Library had 200+ downloads in a single week

Linear Regression Expectation, Python, SKLearn
- Used machine learning to predict baseball teams' winning percentage
- Performed 6% more accurately than traditional Pythagorean expectation