

JOSHUA WADE

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📍 Calgary, Alberta

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EDUCATION

B.A.Sc - Computer Engineering and Applied Mathematics, with Professional Internship

Queen's University

📅 Sept 2016 - May 2021

📍 Kingston, Ontario

EXPERIENCE

Senior Associate Consultant

Stroud International

📅 Sep 2021 - Present

📍 Calgary, Alberta

- Led design working sessions to identify and develop opportunities to optimize project scope, reducing capital expenditure by \$300M+ for a clean hydrogen fuel production facility.
- Led engineering design teams to identify and prioritize opportunities to reduce capital expenditure by \$100M+ for an oil sands tailings expansion project using zero-based analysis.
- Developed major logistics assessment and scheduling tools for the execution of a multi-million-dollar floating production storage and offloading vessel refurbishment project, reducing project delays by over a month.
- Led an improvement team to reduce downtime on two manufacturing lines by 35% over 8 weeks by identifying and implementing mechanical improvements and developing standard operating procedures.

Software Developer

Centre for Advanced Computing

📅 May 2019 - November 2020

📍 Kingston, Ontario

- Led a team of junior developers in the successful four-month development and launch of a mental health startup's web platform using React, Node.js, and Python. Utilized Agile methodologies for iterative scope adjustment, exceeding client expectations and minimizing project cost.
- Directed the design and full-stack development of a pilot AI-assisted academic web platform, leveraging technologies such as React, Node.js, Docker, and Kubernetes, and integrating with IBM Watson.
- Optimized and implemented natural language processing algorithms using Python for an NLP research project focused on the Mohawk language, integrated into a React application.

Chief Technical Officer

Queen's Space Engineering Team - Satellite Project

📅 April 2020 - May 2021

📍 Kingston, Ontario

- Led a team of 35 undergraduate engineering students in designing and building a micro satellite (CubeSat).
- Designed and developed a real-time satellite reaction wheel orientation control simulation with Simulink and MATLAB.
- Presented design plan at the Canadian Satellite Design Challenge, Critical Design Review 2019.

Private

Canadian Armed Forces - 21 Electronic Warfare Regiment - Reserve Force

📅 June 2018 - Jan 2019

📍 Kingston, Ontario

- Completed Basic military qualification (BMQ) and BMQ – Land. Excelled in weapons handling and CBRN defense.
- Developed a determined mindset with leadership qualities and mental endurance necessary for a military environment.

ADDITIONAL INFORMATION

- Programming: Python, JavaScript (Node, React), CSS, HTML, TypeScript, Java, C, C++, VBA
- Tools: Git, Docker, Kubernetes, GPT, Stable Diffusion, MATLAB, Simulink, Photoshop, Zapier, Canva
- Winner - Bose AR App Development at BostonHacks 2019, Secure IoT Hackathon 2020 - Pill-O-Talk product design
- Interests - Machine Learning, Communication Theory, Process Automation, Generative AI, AI Ethics
- Languages - English: Native (ILR Level 5), French: Professional Proficiency (ILR Level 4)