ARUL ARORA
SYSTEMS DESIGN ENGINEERING

CONTACT

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PROFESSIONAL SKILLS

- Proficient time management skills and analytical team player who can grasp concepts quickly and effectively
- Comfortable collaborating with colleagues and staying organized in an online and in person environment

TECHNICAL SKILLS

- C/C++
- HTML/CSS
- VBA
- Python
- SolidWorks
- Microsoft Office Suite

EDUCATION

University of Waterloo
- Candidate for BASc in Systems Design Engineering - Apr 2025
- Relevant Courses:
- Digital Computation
- Introduction to Design

AWARDS

- University of Waterloo President's Distinction
- University of Waterloo Research Award
- University of Waterloo International Experience Award

EXPERIENCE

Process Engineer Coop Student, *BWXT*
Jan 2021 - Apr 2021
- Collected time-stamped and tool usage data which were organized into data models to save $2000 a minute in a $140 million nuclear project
- Developed and designed the software that tracked, transferred, and computed data through databases using VBA and Excel
- Communicated effectively with co-workers during the 12-hour day to night shift rotation to ensure necessary information was established

Aquatic Instructor, *Town of Milton*
Aug 2018 - Mar 2020
- Taught and planned swimming lessons for 8 classes per shift consisting of 5 to 10 students with various skill ranges and ages
- Formed professional relationships with students and parents by providing multiple solutions to problems and exceptional customer satisfaction

Martial Arts Assistant Instructor, *Fighting Griffin*
Oct 2016 - Mar 2020
- Trained and practiced vigorously for 13 years to advance karate techniques and garner the ability to teach lower ranked belts
- Conducted classes of 25 students teaching various karate techniques while developing confidence and leadership skills

PROJECTS

Motor Developer, *Waterloop*
Jan 2021 - Present
- Designing and developing a Linear Induction Motor using properties of physics and electricity that will propel and levitate a Hyperloop pod
- Use SolidWorks to model relevant components of the motor and use COMSOL Multiphysics to test its relevant properties

Personal Website, *arularora.com*
Feb 2021 - April 2021
- Built personal website from scratch using customized HTML/CSS code
- Grasped a fundamental understanding of web development by taking multiple online courses and applying the skills to the website

Library for Books, *github.com/ArulArora/LibraryForBooks*
Nov 2020
- Using object-oriented design, created a data storage solution for storing and managing books
- Repeatedly applied test cases until all test scenarios were satisfied to ensure software usability