Anoushka Pathak

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https://nikpath.github.io/

Candidate for Honours Mechatronics Engineering - University of Waterloo (2023)

RELEVANT EXPERIENCE

Programmer and Computer Support—Environment Canada
JAN - APR 2019

- Developed a web application for users to easily input entries in a database using AJAX, SQL, and PHP
- Modified a file-uploading tool to be able to modify and upload large data files using python scripts
- Implemented and troubleshooted file copying/transferring (batch scripts) in preparation for a department-wide update
- Updated and debugged web tools by implementing dynamic menus and inputs using jQuery and improving UI design by using bootstrap and other CSS libraries
- Troubleshooted issues with computers, networks, and printers

RELEVANT PROJECTS

Personal Website — Web Development
SEPT 2018

- Published a personal website using HTML and CSS to learn web application development: https://nikpath.github.io/

Jenga Builder — 1A Mechatronics Project
SEPT - DEC 2018

- Collaborated with a team to design and build a robot that sets a Jenga tower using Lego and Tetrix kits
- Programmed robots in RobotC to learn how to work with sensors and timers

Pneumatic Arm — 1A Mechatronics Project
SEPT 2018

- Designed a robotic arm that placed small items on hooks with accuracy and precision using Tetrix kits and pneumatics

Responsive Diary Application — EngHack 2019
22-23 JUN, 2019

- Designed a responsive diary app with a team to promote daily writing and self-improvement as part of a hackathon

Structure and design — FIRST robotics 2018
JAN - APR 2018

- Built and assembled components of the robot structure in a machine shop
- Developed ideas with a team on how the robot would lift itself and a large weight approx. 7ft upward

LANGUAGES

- C++
- Javascript
- SQL
- PHP
- HTML+CSS
- Python

TOOLS

- XCode
- GitHub
- PgAdmin
- AutoCAD
- Solidworks

RELEVANT COURSES

- Data Structures and Algorithms (C++)
- Digital Computation (C++, RobotC)
- Engineering Graphics and Design (AutoCAD, SolidWorks, orthographic projection, GD&T)

VOLUNTEERING

- UW Engineering orientation leader – 2019
- Member of Youth Activity Council at Kitchener Public Library – 2018