

Anoushka Pathak

2A Candidate for Honours Mechatronics Engineering - University of Waterloo (2023)

RELEVANT EXPERIENCE

Web application developer—Computer Science Computing Facility, University of Waterloo

SEPT - DEC 2019

- Built DoorSign, app allowing faculty staff to see if other staff are in office or away. Users can set their status + return times and custom messages
 - Created a **postgres database** and used **React-Flask** for front-end
 - **Planned roll-out** for department wide implementation and performed demos for other departments on campus
- Updated SAT (School Admin Tool), React-Flask app for managing data for university classes, research groups and resources
 - Helped improve SQL database design by modifying table relations
 - Used **SQLAlchemy** to allow users to fetch, edit and create data
 - **Improved UI to be more intuitive and accessible** - redesigned page layout and added warnings + hints to improve user flow
- Used **Vagrant** to maintain dev environments for apps being worked on
- Used **Gitlab** for source control and collaboration with other engineers

Programmer and Computer Support—Environment Canada

JAN - APR 2019

- Developed a web app for users to easily input entries in a database using **AJAX, SQL, and PHP**
- Improved a file-uploading tool to handle large files using **python** scripts
- Debugged and fixed file copying/transferring **bash scripts** in preparation for a department-wide update of Windows 10
- Implemented dynamic menus and inputs using **jQuery** and improved UI design using **Bootstrap CSS** for other misc. tools
- Troubleshooted issues with computers, networks, and printers

RELEVANT PROJECTS

Responsive Diary Application — EngHack 2019

22-23 JUN, 2019

- Prototyped an ML based diary app with team to promote daily writing and self-improvement as part of a hackathon

Personal Website — Web Development

SEPT 2018

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

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<https://nikpath.github.io/>

LANGUAGES

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

TOOLS

- Git
- Flask
- React
- PostgreSQL
- XCode
- VirtualManager
- Vagrant

RELEVANT COURSES

- Data Structures and Algorithms (C++)
- Digital Computation (C++, RobotC)