

ROSHAN RISHAV

Website: (<https://roshanrishav.github.io/portfolio/>)

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EDUCATION

Bachelor of Computer Science, University of Waterloo

Pursuing a bachelor's degree in the field of **Computer Science** with a **minor** in **Entrepreneurship**.

SKILLS

Languages: Javascript, C, C++, C#, Python, HTML, CSS
Tools and Frameworks: - *Javascript:* React.js, Redux.js, Node.js, p5.js, knockout.js
- *Other:* Git, Bash, Bootstrap, Heroku, Jira, Invision

WORK EXPERIENCE

DATA.WORLD | SOFTWARE ENGINEERING INTERN

Jan 2018 – Apr 2018 | Austin, Texas | React.js, Redux.js, Node.js, Python

- Designed and implemented a *Content Management System*(CMS), based on markdown files stored in datasets, stored in data.world, by adding several API endpoints, leveraging the internal API's. Currently being used throughout the web-app, reducing the amount of effort require to manage complex UI components significantly.
- Developed integrations for the data.world web-app with major data storage and visualization platforms such as 'Box' and 'Plotly'.
- Developed the 'stream' file-type, by leveraging the data.world streams api, by add API endpoints which enables the users to add a JSONL file which can be appended on to with live data.
- Implemented several sophisticated and dynamic UI components to set-up a new 'app-store' like integration pallet.

IBI GROUP | SOFTWARE DEVELOPER INTERN

May 2017 – Aug 2017 | Toronto, Ontario | C#, ASP.NET, Javascript, SQL

- Developed a micro-service to fetch all of the cctv cameras in a specific range, in real-time, from a given point or address for the Emergency Response System, which is currently being used by several states in USA.
- Developed real-time cameras and travel time pages for the '511' websites, which displays all of the cameras and travel time on any particular highway, for the department of transportation of many states in US, and South Africa.
- Developed an internal server space cost and time estimation web-app as a standalone project, which reduced the time consumption of the project managers significantly.

TVO STUDIOS | AGILE SOFTWARE DEVELOPER INTERN

Aug 2016 – Dec 2016 | Toronto, Ontario | C#, ASP.NET, Javascript, SQL

- Designed and developed automated test-suites, written in python for the 'two.org' website and the 'mPower', a web based educational game for the students from Kindergarten till the 6th Grade.
- Reviewed and modified game development documents for the web game 'mPower', which was used towards the development of the game for every iteration.

PROJECTS, HACKATHONS AND AWARDS

(Al)Fred | MHacks X | Python, MongoDB, Google Developer Tools, Wit.ai, Twilio | Source Code: <https://github.com/RoshanRishav/Alfred-Beta>

- Built a virtual personal assistant, that can schedule meetings, events, get weather forecasts, set reminders etc. without the requirement of an active internet connection.
- The bot lives on a phone number, which can be used either by the account holder or any other person the account holder invites., powered by Twilio's API's, and connects with the user's google account to access their calendar and emails, while maintaining a secure OAUTH 2 connection.
- The bot uses Wit.ai, for the natural language processing in order to make the conversation between the user and the assistant natural.

Take Me Home | Genetic Algorithm | p5.js | Demo: <https://www.student.cs.uwaterloo.ca/~rrishav/TakeMeHome/index.html>

- Implemented a genetic algorithm that simulates the genetic simulation of a species in an ecosystem, to show the reliability of the use of AI in autonomous vehicles. The simulation starts with a set number of cars which then teach themselves to reach the target by evolving through generations.

Quadris | C++ | Source Code: <https://git.uwaterloo.ca/hycal/Quadris>

- Designed and developed the game Tetris in a team of three, using the observer pattern design of OOP. The game has both a terminal based and graphical UI, hint generator, and 3 levels.

StepInn.ca | co-founder | www.stepinn.ca

- Co-founded a centralized web-space which allows international students to search, book, manage and pay for their accommodation. Stepinn also offers a smart roommate finder, which matches people who are looking for shared space based on their personal interests and personality.

Awards, Volunteer and Leadership Positions

- Awarded the "*President's Scholarship*" by the "*University of Waterloo*" for exceptional academic achievement.
- Mentor and Volunteer in "*Hack The North*", the biggest hackathon in Canada, as a part of the Activities team.
- Was selected as one of the 70 students for the **Velocity** Residence Program, a startup acceleration program, for the spring 2016 term.
- Was elected as **the Cultural Secretary** of **Delhi Public School** for the years 2013-2015. Was responsible for all of the cultural events organized by the school.