

Roshan Rishav

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Education

UNIVERSITY OF WATERLOO

Bachelor of Computer Science
Expected Aug 2020 | Waterloo, ON

DELHI PUBLIC SCHOOL

Grad. May 2015 | Ranchi, India
Graduating Average: 91 %

Relevant Courses

Introduction to Combinatorics,
Data Structures and Data Management,
Foundations of Sequential Programs,
Computer Organization & Design,
Object Oriented Software Development
Logic & Computation, Probability,
Elementary Algorithm Design and Data,
Designing Functional Programs,
Linear Algebra 1

Skills

PROGRAMMING LANGUAGES:

JavaScript • Python • C • C++ • C#

TOOLS AND FRAMEWORKS:

JavaScript: react.js, redux, node.js
p5.js, knockout.js

Bash, Git, HTML/CSS, Redis, AWS

Data: SQL, SPARQL

Achievements

- Won **\$2000** as President's Scholarship, University of Waterloo.
- Part of an Entrepreneurship acceleration program, "**Velocity**", at the University of Waterloo. Was selected as one of the 70 students to be a part of the Velocity residence program.
- Mentor and volunteer in **HacktheNorth**, the largest hackathon in Canada, as a part of the activities team.

ONGOING PROJECTS

- Working on a "human-emotion" based advertisement placement analyzer algorithm in a group of two using "node.js" and web services such as "IBM-WATSON" and Spotify.

Work Experience

DATA.WORLD | SOFTWARE ENGINEERING INTERN | *Austin, Texas*

Jan'18 – Apr'18 & **Sept'18 – Current** | React.js, Redux, Python, Node.js

- Designed and developed a custom Content Management System (CMS) to streamline and speed up web content management across teams.
- Implemented integrations, such as 'Box' and 'Plotly', with data.world, making data ingestion and visualization seamless.
- Developed the 'stream' file-type, enabling users to stream live data to the platform.
- Implemented the "Open in App" feature, which allows the users to see all of the available 3rd party integrations based on the user's history, file or the query type.

IBI GROUP | SOFTWARE DEVELOPER INTERN | *Toronto, Ontario*

May'17 – Aug'17 | C#, ASP.NET, JavaScript

- Developed a micro-service to fetch live CCTV camera feed from a specific area, in real time for the Emergency Response System, currently being used by several states in USA.
- Developed dynamic 'Highway Condition' web pages for the Department of Transportation of many states in USA and South Africa.

TVO | AGILE SOFTWARE DEVELOPER INTERN | *Toronto, Ontario*

Aug'16 – Dec'16 | Python, JavaScript

- Designed and developed automated test-suites, written in python and prepared game development documents for the web game 'mPower', used by 20,000+ students in Ontario.

Projects and Hackathons

(AI)FRED | MHacksX | Python, MongoDB, Wit.ai, Twilio | **SOURCE CODE:** [GitHub](#)

Built a virtual personal assistant, using Wit.ai's Natural Language Processing, and Twilio's online calling API's, which lives on a phone number and can schedule meetings, receive calls and take notes on users' behalf, and even get weather reports, all without the need of an active internet connection for the user.

Take Me Home | p5.js, Genetic Algorithm

| **DEMO:** [TakeMeHome](#)

Implemented a genetic algorithm which mimics the evolution of species to show the reliability 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++

| **DEMO:** [Quadris](#)

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

Context.ai | Python, MongoDB, data.world, Wit.ai, Twilio

Building a web-based interface, using the underlying bot from (AI)FRED, to provide contextual information about real-time conversations over phones, or web cam meetings. It will also be able to take live notes and do everything else that (AI)FRED can.