JAY KARON

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EDUCATION

York University – Lassonde School of Engineering — Sep 2016 – Present
Honours BSc of Computer Science. Graduating August 2019.
Currently maintaining an A average (8.46 / 9 GPA).
Favourite courses: Advanced Data Structures, Computer Vision and Theory of Computation.

EXPERIENCE

Geospatial Visual Analytics Lab, York University — Apr 2018 – Present
Full Stack Developer and System Administrator, Toronto, ON, Canada
Developed a web system to process, store and display water depth data from a variety of sources and formats. Responsible for the whole stack; Linux administration, database design, web framework, map system and front end.

Summer 2018: Full-time developer

- Led a 2-person team to create a working prototype from scratch.
- Used Django and Python to develop a complex website supporting user accounts, file upload and parsing, and an API for controlled database access.
- Designed an SQL schema for the data and metadata of bathymetry surveys (PostgreSQL).

Fall 2018 – Spring 2019: Part-time consultant/trouble-shooter

- Familiarized master's students with features of the system.
- Managed the permissions, firewall and other aspects of the Linux server (Ubuntu).
- Responded to emergency issues related to the server.

Summer 2019 (Present): Part-time developer to review old features and develop new ones.

Shaarei Shomayim Congregation — Sep 2018 – Present
Youth Director, Toronto, ON, Canada
Facilitates weekly religious services and discussions at a local synagogue for youth ages 10 – 17.

Louis Brier Jewish Aged Foundation — Jul 2016 – Aug 2016
Donor Information Coordinator, Vancouver, BC, Canada
Used technology such as automated Excel spreadsheets and Word templates to streamline common tasks for a foundation that raises funds for a resident care home.

AWARDS

Merei Family Scholarship — Feb 2019
For achieving the highest GPA among upper year students of Lassonde School of Engineering.

Irvine R. Pounder Award — Feb 2018
For the top student of each academic year in Mathematics and Statistics at York University.

Chair's Honour Roll – Mathematics and Statistics — Nov 2017
For excellence in mathematics and statistics courses at York University.

Infotech Award — Jun 2014
For outstanding performance in technology-related courses upon graduating high school.

VOLUNTEERING

Yachad — Dec 2017 – Current
Supervisor, Toronto, Ontario, Canada
Volunteer aide for individuals with special needs on weekend retreats.

SKILLS

Programming	Life	
Familiar with Python, Java and JS	*Strong Work Ethic*	*Enthusiasm*
SQL and Database Design	*Analytical Thinking*	*Microsoft Office*
Modern Web Technologies	*Team Player*	*Enjoys Math*
Linux/Bash Scripting	*Attention to Detail*	
Basic Git Usage	*Friendly Demeanor*	

PROJECTS[1]

Computer Science Project: *Algorithmics Animation Workshop*[2] — Jan 2019 – Apr 2019
Built a website to facilitate the visualization of algorithms and data structures.
- Created a well-documented, high-level package to ease development of future animations.
- Built with modern web technologies: Typescript, Webpack and Bootstrap.

Course Final Project: *Tree Ring Detection* — Sep 2018 – Dec 2018
Worked on augmenting a computer vision technique to identify tree rings described by Fabijanska *et al.*[3] (2017) using alternate filtering methods.
- Developed in MATLAB.
- Academic report written according to CVPR standards.[4]

Esri App Competition: *Hoodie* — Mar 2018
Lead web developer of a 4-person team to create a prototype web system to rank apartments based on neighbourhood factors for a week-long challenge from Esri Canada.

Personal Website — Nov 2017 – Jan 2018
A portfolio website that hosts information about me and my projects.
- Made using Bootstrap, jQuery and SASS.
- Includes a playable, canvas-based JavaScript game.

Java Roguelike — Jan 2014 – Jun 2014
A turn-based, role-playing game with ASCII graphics made in high school.
- Over 3000 lines of Java code.
- Uses concepts like recursion, object inheritance and cellular automata.

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[1] More information about my projects can be found at https://jaykaron.github.io/projects/.
[2] Hosted at https://www.eecs.yorku.ca/~aaw/.
[3] A. Fabijanska, M. Danek, J. Barniak, and A. Piorkowski. Towards automatic tree rings detection in images of scanned wood samples. *Computers and Electronics in Agriculture*, 140:279–289, 2017.
[4] Report available at https://jaykaron.github.io/imgs/treeRingReport.pdf.