

## **Jeremy DenHartogh**

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### **EDUCATION**

#### **Computer Science (Honours) Internet Security Stream**

**Sep. 2014 – Present**

Carleton University, Ottawa, Ontario

- Fourth year standing, 10.88/12.0 CGPA Overall, 11.00/12.00 CGPA Major
- Faculty Scholarship – 2014, 2015, 2016, 2017, 2018
- Expected Graduation: April 2019

### **AVAILABILITY**

May 2019

### **TECHNICAL SKILLS**

- Developed programs and other software in many programming languages such as Ruby on Rails, NodeJS, Java, C++, C, Python, Haskell, Prolog
- Built and modified user interfaces using HTML, CSS, JavaScript
- Maintained and created databases in SQLite and PostgreSQL
- Build and modified scripts in Python, Ruby, PowerShell and Bash
- Experienced in CAS, GIT, .Net, Microsoft Office Suite and ArcGIS

### **HONOURS PROJECT**

#### **Fantasy Hockey Helper**

**Sep. 2018 – Dec. 2018**

**Grade Received: A+**

**Viewable at [www.FantasyHockeyHelper.com](http://www.FantasyHockeyHelper.com)**

- Created a progressive web application using AWS and Ruby on Rails to assist Yahoo Fantasy Hockey users in making decisions with their rosters
- Acquired data on all NHL players and teams by using RESTful API calls with NHL.com
- Generated statistical projections and values for players using Python and the machine learning library scikit-learn.
- Authenticated Yahoo users using OAuth2, allowing for use of the Yahoo API commands, allowing for the ability to view all Fantasy Information on the user and their leagues.
- Developed a front-end using HTML, CSS and JavaScript
- Works as a progressive web application, allowing users to save the application as an app on mobile devices

### **WORK EXPERIENCE**

#### **Web Applications Developer**

**May. 2018 – Aug. 2018**

**House of Commons, Ottawa, Ontario**

- Created and Developed a web application, using NodeJS, to allow Members of Parliament and their staff to live stream House sessions onto their Facebook, Periscope and YouTube accounts. That allowed for them to easily share speeches or other moments with their constituents.

- Built an easy to use front-end using HTML, CSS and JavaScript with mobile in mind, to allow for the web application to be accessible and useable on all devices

**Web Applications Developer**

**Jan. 2018 – Apr. 2018**

**Blindside Networks, Ottawa, Ontario**

- Maintained and developed for the open-source Ruby on Rails software Greenlight, which is a front end for the web conferencing software BigBlueButton
- Implemented LTI (Learning Tools Interoperability) in Greenlight so that it could be used as an external tool in a variety of LMS's (Learning management system)
- Modified the front-end using HTML, CSS and JavaScript as required during the LTI implementation

**Software Developer**

**May 2017 – Aug. 2017**

**JSI Telecom, Ottawa, Ontario**

- Worked as part of a team, in an agile development style, to help automate the process of configuring and deploying virtual systems, as well as the creation of a web portal to help further increase user friendliness
- Programmed various features for the software in ruby, various automation scripts in both PowerShell and Bash and created additions to the web portal using JavaScript, HTML, and CSS
- Developed various unit tests in both Ruby and PowerShell to assist in testing new additions to the programs
- Deployed and configured a CAS server inside of a Docker container, to use the authentication process SAML, allowing for single sign on to work with Greenlight

**IT Enterprise Content Management Administrator**

**May 2016 – Aug. 2016**

**City of Ottawa, Ottawa, Ontario**

- Created and modified PowerShell scripts and constructed Graphical User Interfaces, using the .net framework, to help improve the efficiency, user friendliness, and artificial intelligence of a program designed to assist in uploading large quantities of files to the company databases
- Wrote a large number of documentations that assist clients in using the program, and future developers in understanding the program
- Conducted extensive testing, to check the program for errors, and find any points in the program where efficiency or clarity of the processes could be improved

**Teaching Assistant**

**Sep. 2015 – Present**

**Intro to Computer Science (1/2) / Discrete Structures / Programming Paradigms**

**Carleton University, Ottawa, Ontario**

- Explained key programming and logical concepts to students to help them better understand the material being taught in the courses
- Evaluated students' assignments and quizzes in a timely manner, providing feedback to assist them in improving upon their work
- Conducted office hours, tutorial sessions and participated actively on the student forums as directed by the professor to further help students understand the assignments and related concepts