

Nicholas Westbury

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3B Computer Science - Waterloo ID #: 20550430

Key Skills

Languages Python, C/C++, C#, SQL, PHP, JavaScript, HTML, CSS, Bash
Technologies ES6, NodeJS, ReactJS, React Native, PostgreSQL, MongoDB, Apache, Nginx, Django, Git
Bilingual Fluent in verbal and written French

Education

University of Waterloo

CANDIDATE FOR BSC, COMPUTER SCIENCE

Waterloo, Ontario

Sept. 2015 - Sept. 2019 (Projected)

Work Experience

Toronto-Dominion Bank Asset Management

Toronto, ON

PORTFOLIO ANALYTICS FULL-STACK WEB DEVELOPER

August 2017 - December 2017

- Supported suite of online portfolio management tools used to manage \$10+ billion
- Added features including: bulk portfolio loading, transaction import tool, and an administrator session editor
- Improved front-end website rendering performance 10x by reducing the amount of React state updates

ARB Labs

Niagara Falls, ON

PYTHON DEVELOPER

January 2017 - April 2017

- Improved performance of image-recognition random-forest algorithm to recognize casino chips
- Wrote low-level C code to interface with camera
- Cooperated with front-end developer to create a REST API using the Django, MongoDB stack

Computer Science Computing Facility (CSCF)

Waterloo, ON

PYTHON WEB DEVELOPER

May 2016 - September 2016

- Improved the graduate student admission website, based on client requests
- Created PostgreSQL database queries to fetch, search and modify student records
- Accelerated search page load time 15x

Computer Curling Research Group (CCRG)

Edmonton, AB

NSERC UNDERGRADUATE RESEARCH AWARD INTERN

May 2015 - September 2015

- Implemented supervised machine learning algorithm
- Ran computationally-intensive scripts on the Compute Canada supercomputer cluster
- Created and presented a technical research poster

Reinforcement Learning and Artificial Intelligence (RLAI) Lab

Edmonton, AB

COMPUTER SCIENCE RESEARCH INTERN

Summer 2013, 2014

- Implemented a reinforcement learning algorithm to teach a Roomba-like robot to recognize shapes
- Programmed a graphical user interface in Python
- Presented a poster which showcased TD-lambda along with a live demonstration of the robot

Projects

2017	Fourth Wall , Brought augmented reality (AR) to virtual reality (VR) platforms
2017	Roomie , Created automated interior design algorithm & web frontend, won 1st out of 41 teams
2016	Third Sense , Won Hack the North 2016 with VR haptic feedback vest against 300+ teams
2016	CopyEverything , Placed 1st with a cross-platform clipboard sharing application
2015	Investleduc.com , Created commercial website with custom backend email server
2009-2014	FLL/FTC Robotics Team , Programmed for four-time national champion robotics team

References available upon request.