Nicholas Westbury

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Key Skills ____

Languages Python, Go, C, C++, C#, SQL, PHP, JavaScript, HTML/CSS, Bash

Technologies Docker, ES6, NodeJS, ReactJS, React Native, PostgreSQL, MongoDB, Apache, Nginx, Django, Git

Biligual Fluent in verbal and written French

Education _

University of Waterloo

Waterloo, Ontario

CANDIDATE FOR BSC, COMPUTER SCIENCE

Sept. 2015 - Apr. 2019 (Projected)

Work Experience _____

Ultimate Software San Francisco, CA

FULL-STACK SOFTWARE ENGINEER

April 2018 - December 2018

- Supported website survey timeseries and question bank features
- Integrated new Angular client-side continuous integration testing framework
- · Increased maximum number of possible concurrent users on dashboards by 4x by reducing CPU load

Toronto-Dominion Bank Asset Management

Toronto, ON

PORTFOLIO ANALYTICS FULL-STACK WEB DEVELOPER

August 2017 - December 2017

- · Supported portfolio management tools implemented bulk portfolio loading, import tool, administrator session editor
- Improved React front-end website rendering performance 10x by reducing state-update

ARB Labs Niagara Falls, ON

PYTHON DATA SCIENCE & WEB DEVELOPER

January 2017 - April 2017

- · Improved accuracy of image-recognition random-forest algorithm to recognize casino chips
- Wrote Python extension in C 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

- · Created PostgreSQL database queries to fetch, search and modify student records
- Accelerated search page load time 15x

Reinforcement Learning and Artificial Intelligence (RLAI) Lab

Edmonton, AB

NSERC Undergraduate Research Award Intern

Summer 2013-2015

- Implemented machine learning for continuous-space search and reinforcement learning algorithms for Roomba shape detection
- · Ran and created computationally-intensive scripts on the Compute Canada supercomputer cluster

Hackathons & Projects _____

2018	Agrobot , Won Hack the North 2018 with a weed-detecting and picking robot
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