

Nicholas Westbury

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4A Computer Science - Waterloo ID #: 20550430

Key Skills

Languages Python, Go, 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

Ultimate Software

FULL-STACK SOFTWARE ENGINEER

San Francisco, CA

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

PORTFOLIO ANALYTICS FULL-STACK WEB DEVELOPER

Toronto, ON

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

PYTHON DATA SCIENCE & WEB DEVELOPER

Niagara Falls, ON

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)

PYTHON WEB DEVELOPER

Waterloo, ON

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

NSERC UNDERGRADUATE RESEARCH AWARD INTERN

Edmonton, AB

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