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
Biligual	Fluent in verbal and written French

Education

University of Waterloo   *Waterloo, Ontario*

CANDIDATE FOR BSC, COMPUTER SCIENCE   *Sept. 2015 - Sept. 2019 (Projected)*

Work Experience

Ultimate Software   *San Francisco, CA*

SOFTWARE ENGINEER: FULL-STACK AND DEVOPS   *April 2018 - December 2018*

- Coded, reviewed, and tested a total of nearly 100 features and bug-fixes
- Created new client-side continuous integration testing framework
- Increased maximum number of possible concurrent users on dashboards by 4x

Toronto-Dominion Bank Asset Management   *Toronto, ON*

PORTFOLIO ANALYTICS FULL-STACK WEB DEVELOPER   *August 2017 - December 2017*

- Supported suite of portfolio management tools: bulk portfolio loading, transaction import tool, administrator session editor
- Improved React front-end website rendering performance 10x

ARB Labs   *Niagara Falls, ON*

PYTHON 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 and reinforcement learning algorithms
- Ran and created computationally-intensive scripts on the Compute Canada supercomputer cluster

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