Daniel Snider

danielsnider12@gmail.com
Toronto, Ontario, Canada
www.ChallengeAccepted.me
+1 289 928 7553

Objective

To use computer vision to create the best products possible

Highlights

- IBM work experience (16 months)
- Google Summer of Code student work program
- Hard working & self-taught student of computer vision and machine learning

Professional Work Experience

May 2010 – August 2011

Data Warehouse Specialist, IBM

- **Consulted** for IBM business partners on their needs for data warehouses and products such as InfoSphere Warehouse and Netezza
- **Managed** multiday educational boot-camps which included lectures and labs
- **Lead developer** of an information system made of IBM software components spread across three machines. The information system was ported to a single USB drive which would automatically install and configure Linux and the information system across new hardware. Used by IBM sales people to showcase IBM information systems. Started as an unrequested side-project
- **Created** the team's private VM cloud for team's projects using VMware ESXi. Started as an unrequested side-project

January 2010 – April 2010

Web Researcher, University of Ontario Institute of Technology, Part-Time

- Built a python web crawler to collect web-link topology of the blogosphere
- Implemented efficient path selection, error tolerance, and organized data storage

May 2009 – August 2009

Open Source Developer, OpenSWAN Linux VPN, Google Summer of Code

- Developed a command-line VPN troubleshooting tool for OpenSWAN users
- Gained proficiency with Linux, Bash, Python, scripting, IPsec, TCP/IP, HTTP

January 2009 – April 2009

Cisco Networking Lab Assistant, University of Ontario Inst. of Technology

- Assisted students during weekly drop-in hours at the advanced networking lab

Professional Certification

August 2010 — **IBM Certified Database Associate (DB2 9 Fundamentals)**

August 2009 — **Cisco Certified Network Associate (CCNA)**

- Passed exams with 92% score

Technical Skills

Programming
C/C++ (3 years)
Python (2 years)
Shell (2 years)
Java, Perl
Algorithms and Data Structures

Networking
TCP/IP (4 years)
IPSEC, Quality of Service
Routing and Switching
Cryptography

Operating Systems
Linux (3 years)
Windows

Software
VMware ESXi
BASH, GIT
Wireshark
Microsoft Office

Web: HTML, CSS, PHP, JS, Node.js, SASS, MySQL

Artificial Intelligence
OpenCV
Matlab, Octave
Machine Learning
Neural Networks

Daniel Snider

danielsnider12@gmail.com
Toronto, Ontario, Canada
www.ChallengeAccepted.me
+1 289 928 7553

Education

Machine Learning course, Fall 2012
- Stanford University (course offered on Coursera.com)
- 88.4% grade average

Bachelor of Information Technology, Sept 2008 – May 2013
- University of Ontario Institute of Technology (UOIT), Oshawa Ontario Canada
- Focus of degree: computer programming, networking, and security
- Dean's List, 3.92 GPA / A / 90% grade average in most recent semester
- Awarded Entrance Scholarship

International exchange student at Free University Berlin, Summer 2012
- Classes studied: Computer Vision, Digital Video, Telematics Software Project, German A1.2

Sir Robert Borden High School, Ottawa, Ontario, 84% graduating average

Workplace Skills

- Team player
- Independent learner
- Excellent verbal and written communicator

Volunteer Experience

August 2012	• **Volunteer** at the "Campus Party" Berlin technology conference
July 2012	• **Volunteer** at ACM conference on Distributed Event-Based Systems
March 2012	• **Discussion leader** of the IT security research paper reading group at UOIT
Sept 2009 – 2012	• **President** of the IT club at UOIT
March 2012	• **Event organizer** of the student video game LAN at UOIT
Summer 2009	• **Participant** of the Canada's ISACC Task Force on IPv6
March 2009	• **Speaker** at Toronto's HackLab on cloud-centric Internet

Computer Vision Projects (more information available at www.challengeaccepted.me)

2012
- **Contour Finding Algorithm:** groups high intensity pixels using a split-and-merge approach. For example, letters are grouped into a word region.
- **Empty Space Algorithm:** finds the largest light-colored homogenous area in an image
- **Highlights only OCR:** performs OCR only on text in an image that has been highlighted
- **Document structure analysis:** separates document columns and rows visually

Major School Projects

December 2011	• **Implementation** of RSA encryption/decryption and Diffie-Hellman key exchange.
December 2009	• **Bubble sort** written in 8088 architecture assembly language.
December 2009	• **Implemented very large network** using advanced Cisco equipment.

Interests

- **Music, rock climbing, fire spinning**
- **Learning, software projects, all things innovative**
- **Traveling**: I have visited Beijing, Tel Aviv, and places in 15 other countries
- **Video games (a past time)**: placed top 10 in tournaments

References Available Upon Request - Willing to Consider Relocation Globally