Patrick Perrier

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Technical Skills

Proficient In:	C++, C, C#, Python
Familiar With:	Java, Bash, Javascript, VBScript, HTML, CSS, LaTeX, Powershell
Tools:	MS Azure, Git, Subversion, Perforce, PTC Integrity/Source, Jira, FogBugz, WinDbg, VSTS, Visual Studio

Work Experience

Jan-Apr 2017

Software Developer at Microsoft, Vancouver, BC
Big Park
Designed and implemented new process and C#/Python tools to increase QA testing efficiency to hours from days
Improved 3D image file transcoding software, shipped with Windows 10 Creator's update

May-Aug 2016

Driver Developer at AMD, Markham, ON
Windows Kernel Mode Driver Team
Implemented all-new client interfaces for full driver rearchitecture as part of the project scrum team
Designed and developed a C/C++ linting tool for internal code quality enforcement by modifying and extending LLVM and clang-tidy.

Sept-Dec 2015

Software Development Co-op at Phoenix Interactive Design, London, ON
VISTAatm Team
Rewrote internal log parsing utility using Visual C# and Excel, adding usage options and greatly improving stability, reliability, and log processing power while maintaining performance.

Jan-Apr 2015

Software Developer Intern at SMART Technologies, Calgary, AB
Notebook Team
Added Google Breakpad-based crash reporting, menu buttons to access new add-ons, extended unit test coverage for Notebook SDK by 25%, and fixed bugs for release 15.0 (April 2015) using C++/Objective-C++ and boost on both Windows and OSX.
Invented, planned, designed, and implemented an activity for Notebook LAB, using Javascript, Ember.js, Handlebars.js, HTML5, and CSS3.

May-Aug 2014

Product Verification Team Member at Nakina Systems, Kanata, ON
NI-Director Team
Upgraded old webservice test cases into XML format for deployment into improved test architecture.

Projects

- **Novel-Insights** (in progress)
  - Application using NLP and textual analysis tools to provide intelligent notes and feedback to writers about their story.
- **ImgurSwitcher**
  - Cross-platform Python script to download images from an Imgur album and set them as the desktop background when keyboard shortcuts are used.

Education

University of Waterloo, Waterloo, ON

- Candidate for Bachelor of Software Engineering, 2013-2018

Interests and Activities

- Fan of hockey and pick-up sports in general.
- Wide variety of reading; favourite authors include Terry Pratchett and Jim Butcher.
- Learning how to play guitar and saxophone, and generally a music lover from swing to rock to classical.