

CharlesQi

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Skills

Languages: Java, JavaScript, C++, C#, Python, PHP, Perl, Octave

Tools and Frameworks: Bash, Eclipse, Spring MVC, NodeJS, MySQL

Skills: MVC Design, OOP, Server Side Scripting, HTTP, Machine Learning

Experience

Voice Application Intern, Genesys Markham, Ontario Jan – May 2015

- **Full stack** migration of Genesys Automation Tool to Web Application using Spring MVC in **Java**, with Apache Tomcat as the server. Used persistence/hibernate to interact with MySQL database.
- Wrote **PHP** scripts for integration of RESTful API and SOAP Web Services into Genesys Voice Application backend
- Created **Python** scripts for audio file comparison, excel/CSV file parsing and hierarchy generation

Software Developer, Agriculture and Agri-Food Canada Ottawa, Ontario Apr-Aug 2014

- Developed, released and open-sourced a bioinformatics pipeline in **Perl** for scientific research:
https://github.com/AAFC-MBB/AODP_releases/tree/master/AODP_v1.3.0
- Used multi-threading and hashing to decrease running time of processing large datasets

Projects

Personal Website (NodeJS, HTML, CSS) 2015

- Built scalable personal website with blogging features using NodeJS as server and Amazon EC2 as host.
See it at 52.24.203.68

UW Flow (Javascript, HTML, CSS) 2014

- Contributed to the front-end of *Flow*, a popular *open-source* web based course planning software for University of Waterloo students

No Limit Texas Hold'em Poker (C#) 2013

- Built using object orientated methodologies, with polished UI
- Programmed adaptive AI for different play styles and difficulty

Education

Bachelor of Software Engineering, University of Waterloo Sept 2013 – Present

- President's Scholarship of Distinction for averages above 95%

Machine Learning – Coursera, Stanford University Jan - Apr 2015

- Statement of Accomplishment with overall average of 98.1%

Extracurricular Activities

- Participated in Model United Nations Conferences at New York and Montreal
- Certified Level 1 instructor of the Canadian Ski Instructors Alliance
- ARCT Diploma in Piano Performance
- Performed piano for charities