XueYing (Dora) Hu

3B Computer Science University of Waterloo

about

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programming

C#, C++, C, Java,
SQL, VB, MIPS x32,
Racket, R,
.NET Framework

web

AngularJS, Angular2,
jQuery, JavaScript,
Bootstrap, TypeScript,
node.js, HTML, CSS,
MVC architecture

database

Oracle,
MS SQL Server

other

Linux, Android SDK,
Crystal Report,
Entity Framework,
MS Excel,
Asynchronous Coding,
Automapper, LaTeX,
SharePoint

achievements

- Implemented new data driven and dynamic solution that greatly improved efficiency of a management module in previous co-op position
- Awarded for innovative idea during co-op innovation day in the Ministry of Education
- Published original research and quantitative data analysis in a peer-reviewed political science journal
- Excellent leadership skills proven by experience in organizing large-scale events at work and school

experience

01-04 2016
05-08 2015 — **.NET Developer** — Ontario Ministry of Education, Toronto, ON

- *Dramatically decreased costs* for reference table maintenance by rewriting management module to be completely dynamic and data driven
- *Spearheaded first co-op innovation day* and awarded for innovative solution
- *Collaborated with senior management* on event organization and solution implementation
- Improved processes and added new functions on three major province-wide applications in several production releases
- Heavily involved in communication with clients and provided technical solutions based on their requirements

applications

06 2016 — **Syntax** — MSFTHacks
Achieved basic context-based search using Microsoft linguistic analysis API.

2015 — **Who is the Spy?** — Android app
Digitized group game and replaced human players with automated process for generating description.

awards

04 2015 — **Co-op Innovation Day Award** — Ontario Ministry of Education

12 2015 — **Dean's Honour List** — University of Waterloo

11 2014 — **National Novel Writing Month Winner** — National Novel Writing Month

education

since 2014 — **Bachelor** candidate in Computer Science — University of Waterloo, Waterloo, Ontario
Relevant Courses: Object-Oriented Software Development, Data Structures and Data Management, Foundations of Sequential Programs, Elemental Algorithm Design and Data Abstraction

experience - detailed

| 01-04 2016 | **.NET Developer** | Ontario Ministry of Education, Toronto, ON |
| 05-08 2015 | | |

Ontario Schools Information System(OnSIS): Multi-million dollar bilingual, interactive intranet-enabled .NET Web Application that collects, manages and reports data regarding Ontario Boards, Schools, Educators, and Students

- Implemented functional requirement to collect new information including new tables, UI change, business rule validation, reports generation, XML batch file update
- Maintained reporting for submission period-based historical data
- Wrote database script for aggregation of time and type dependent Ontario diploma data
- Adapted quickly to iterative waterfall model maintaining continuous discussion with business and QA team
- Resolved defects by analyzing root cause and examining specifications

Ontario Early Years Child and Family Center: New C# .NET MVC and Angular2 data collection project using agile software development method

- Designed website user interface
- Actively involved in requirement gathering from client and providing technical solutions
- Provided support in database design by clarifying client requirements and requesting modifications
- Organized and transformed client needs into technical specifications and user stories
- Gained knowledge of initial project front-end and back-end infrastructure development

Enhanced Data Collection Solution: A platform for hosting many complex, bilingual, interactive application that allows for the collection, management and reporting of Ontario education data

- Conformed projects across the platform to accessibility standards by conducting detailed research and cooperating with QA team
- Fixed defects in UI, data retrieval and reporting, and business logic
- Implemented search functionality of college programs for ministry users
- Provided guidance and knowledge transfer for new team members

interests

| 07 2016 | **Political Science Research** | University of Waterloo |

- Published journal article in East Asia: An International Quarterly (DOI: 10.1007/s12140-016-9259-5)
- Performed regression analysis in research project with Dr. Hongying Wang on Chinese outward direct investment

| since 2015 | **Committee Director** | University of Waterloo Model G20 |

- Discussed and decided upon committee procedures and topics
- Coordinated committee members to complete research and writing for committee study guides
- Debated global issues in external conferences