

UNIVERSITY OF WATERLOO CO-OPERATIVE EDUCATION RECORD

HELI WANG
20552080
3A COMPUTER SCIENCE

WORK TERM

EVALUATION

SPRING 2016

SAP CANADA INC

EXCELLENT

WATERLOO
SOFTWARE APP DEVELOPER-EMERGING
TECHNOLOGIES TEAM

FALL 2015

**ONTARIO MINISTRY OF EDUCATION
COMMUNITY SERVICES I & IT CLUSTER**

OUTSTANDING

TORONTO
APPLICATION PROGRAMMER

Heli (Harlan) Wang

Third Year Computer Science • Cumulative Avg 89.3% - **GPA 3.9/4.0**

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Skills and Projects

Back End Development

Two years experience in **C++** and **Java**; Proficient in **C# Asp.net MVC** architecture and **LAMP (Linux, Apache, MySQL, PHP)** stack; Familiar with **Apache Maven** and **SAP HANA Smart Data Streaming Platform**.

- Related Project: **UwBook.ca** (Microsoft SQL Server + WebAPI)

Efficient in **Node.js** and **Express**; Comfortable in **RDBMS** and **NoSQL** databases; Practiced in **WebSocket** and security (**SSL, PAM, Session, CSRF Protection**).

- Related Project: **TP Registration System**

Front End Web Design

Work experience in **Bootstrap**, **jQuery**, and **CreateJS** frameworks.

- Related Project: **Chat Noir** - A browser game

Comfortable with both **Web-based** and **Android native** mobile app development.

- Related Project: **Cloud Café** - A hybrid mobile app (**AngularJS** + **Ionic**)

Desktop Software Programming

Eight years of development experience in **EPL (an object oriented language)** by publishing 40+ open source projects in the EPL community; Familiar with **x86 assembly**, **Unix Shell** Programming.

- Related Project: **MicroVita AntiSpyware** - A self-developed anti-virus engine

Working Experience

May 2016 - August 2016

Software App Developer (Co-op) SAP Canada Inc., Waterloo, ON

- Worked on a SAP **edge computing solution** to capture, analyze and act on **real-time** event streams from Internet of Things (**IoT**) devices
- Extended the backend plug-in system of IoT devices in **JAVA** by creating **custom adapters** to the SAP Data Stream Processor (**StreamingLite**).
- Enriched control panels of IoT enterprise cores by **NodeJS**, Mosquitto (a **MQTT** protocol broker), SQL **stored procedures**, and SAPUI5.
- Got excellent performance review with comments “**learnt ‘a tonne of’ new SAP technology in a single work term**”, “**highly committed and productive**”.

September 2015 - December 2015

Application Programmer (Co-op) Ontario Ministry of Education, Toronto, ON

- Implemented **responsive** web applications with JS **MVVM** frameworks.
- Customized **WordPress** sites by **HTML5/CSS3/JavaScript/TypeScript** and **PHP**.
- Designed **test cases** for **Oracle Siebel** in **HP Quality Center**.
- Recommended in LinkedIn by the supervisor as “**dedicated and reliable**”, “**handling additional tasks on his own initiative**” and “**a key team player**”.

May 2015 - June 2015

PHP Web Developer (Part-time) Chanmao Inc., Markham, ON

- Participated in the business logic layer development of a B2C mobile app by **Yii framework (Object/Relational Mapping)** and **MySQL**.

UNIVERSITY OF WATERLOO

UNOFFICIAL GRADE REPORT

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Winter 2017 CS 370 Numerical Computation

Term Average: n/a

Decision:

Fall 2016 CS 341 Algorithms
 Fall 2016 CS 349 User Interfaces
 Fall 2016 CS 350 Operating Systems
 Fall 2016 PHYS 224 Electromagnetism for Life Phys

Term Average: n/a

Decision:

Spring 2016 COOP 2 Co-operative Work Term
 Spring 2016 PD 10 Professional Resp in Computing CR
 Spring 2016 WKRPT 200M Work-term Report NG

Term Average: n/a

Decision: Excellent standing

Winter 2016 CS 240 Data Structures & Data Mgmt 79
 Winter 2016 CS 241 Foundations of Sequential Prog 87
 Winter 2016 CS 251 Computer Organization & Design 83
 Winter 2016 MATH 239 Intro to Combinatorics 86
 Winter 2016 PHYS 112 Physics 2 93

Term Average: 85.6

Decision: Excellent standing

Fall 2015 COOP 1 Co-operative Work Term
 Fall 2015 PD 2 Critical Reflec'n & Rprt Wrtnng CR

Term Average: n/a

Decision:

Spring 2015	CS	245	Logic and Computation	84
Spring 2015	CS	246	Object-Oriented Software Devel	90
Spring 2015	PD	1	Co-op Fundamentals	CR
Spring 2015	STAT	231	Statistics	85

Term Average: 86.3

Decision: Excellent standing

Winter 2015	CS	136	Elem Alg Design & Data Abstrac	88
Winter 2015	ECON	102	Intro to Macroeconomics	98
Winter 2015	MATH	136	Linear Algebra 1 (Hon Math)	91
Winter 2015	MATH	138	Calculus 2 For Honours Math	95
Winter 2015	PHYS	111	Physics 1	99
Winter 2015	STAT	230	Probability	90

Term Average: 93.5

Decision: Excellent standing

Fall 2014	CS	135	Designing Functional Programs	92
Fall 2014	ECON	101	Intro to Microeconomics	87
Fall 2014	ESL	101R	Oral Commun - Acad Purposes	79
Fall 2014	MATH	135	Algebra for Hons Mathematics	93
Fall 2014	MATH	137	Calculus 1 for Honours Math	97
Fall 2014	SEQ	2	Co-op Sequence 2	

Term Average: 89.6

Decision: Excellent standing