

# Zhihong Guo

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## Skills and Tools

### Programming Languages:

Java,C,C++,JavaScript,PHP ,Html,CSS,Ruby,Lisp,Prolog,SQL.

### Tools:

Microsoft Office, IntelliJ IDEA, Git, Visual studio, Spring, Maven, mySQL,Postman,WampServer, AutoCAD, SolidWorks,Ansys.

## Education

### 2016-2019 Bachelor of Computer Science – General program

Concordia University, Montreal, QC

- Relevant Courses: Object Oriented Programming I and II, Web Programming, Data Structures and Algorithm, Operating System, Databases, Data Communications & Computer Networks, Artificial Intelligence, Parallel Programming, Information Security.

### 2011-2014 Bachelor of Civil Engineering: Second Upper Honor Degree

Swansea University, Swansea, UK

## Projects

- **TCP and UDP Server-Client application (2018):**Implemented own GET/POST requests on client side and responses on the server side using socket API and was able to support concurrent requests, TCP three-way handshaking technique, drop rate and delay. Java
- **Auto language identification (2018):** Trained unigram, bigram and trigram models to identify a few sentences with their corresponding languages using Natural Language Processing (NLP).Java
- **Puzzle solvers (2018):** Implemented DFS, BFS and A\* search algorithms to solve 11d-puzzle and analyzed the results to write a technical report. Java
- **2-person group project: small world board game (2018):** Implemented a board game called SMALL WORLD with File Loading (Map), Main Game Logics and Major Game Exceptions, Design Patterns like Observer, Strategy and Decorator etc. C++
- **4-person group project: Company database design (2018):** Designed a relational database application system for a mock company to keep track of some of its important employees' information including E/R model design, E/R model to relational model conversion, Functional Dependencies, Normalizations, Database tables, UI (WebPages) and some of the sample test data. Linux, PHP, MySQL
- **3-person open-source group project: Violet UML Editor (2017):** Added Visualization features on this open source project and wrote documentations about it. Java, Maven

## Career Objective

I am an undergraduate student in Computer Science major, and will be graduated on May 2019. My prior interest is Backend Web Development since I am more proficient in Java programming through my studies at Concordia, but I am willing to learn new different kinds of knowledge in other areas too.