

Gaosen Zhao

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PROJECTS

DECEMBER 2017

Language C++ *Tetris*

Traditional game Tetris written in C++ by object-oriented programming method with graphic display. Many design patterns(factory pattern, observer pattern, visitor pattern...),model(MVC model), and C++ features(smart pointers, dynamic array...) were used in development.

APRIL 2018

Language C++ *HBcoin*

Peer-to-Peer electronic Cash system created by myself according to the Cryptonote template. Customized Total money supply, emission curve, difficulty target and block reward formula.

NOVEMBER 2017

Language: Shell Script *Automation Test Tool*

Lightweight automatic test client running on Linux manipulating batch of inputs and outputs and recording test results.

AUGUST 2017

Language Java *ADT implementation*

Constructed priority queue and max heap ADT structures with 2D array, binary tree, double linked list data structure respectively. And all methods were implemented with the lowest run time and optimized backtracking algorithms.

SKILLS

PROGRAMMING	C++, Java, C, Racket, Matlab, HTML, CSS, Swift, SQL, R,
TOOLS	Git, Jira, Guidewire, XML, Docker, MacOS, Windows, Linux
KNOWLEDGE	Understand data structures, object-oriented programming, Linux scripting, computer organization and computer network protocols.
SOFT SKILLS	Quick learner with strong ability to work under pressure. Effective communication skills and team work skills.

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EDUCATION

2017 – 2021 **Computer Science**
CANDIDATE FOR BACHELOR OF
COMPUTER SCIENCE
University of Waterloo

WORKING EXPERIENCE

JANUARY 2018 - APRIL 2018

Economical Insurance

Quality Assurance

- Worked in development team for data conversion project and helped with story testing and defect testing.
- Designed test scenarios and test cases
- Manipulated XML and XSD Schemas format test data in SQL database.
- Have a deep understanding on project and found fatal bugs.
- Worked closely with BAs, developers and strictly followed agile software development methodologies.

DECEMBER 2016

Shandong University of Finance and Economy

Research Assistant

- Participated in statistics research regarding the transformation of social traditions and sanitation in Jinan city.
- Took in charge of telephone interviews and got hands dirty on data collecting.
- Set up hardware and taught students how to perform telephone interviews with CATI (Computer-Assisted Telephone Interviewing) Software.
- Helped to write the final research report, including statistical analyses and my input on formatting

COMMUNICATION SKILLS

MANDARIN	Native proficiency
ENGLISH	Professional working proficiency