

Boyuan Wang

COMPUTER SCIENCE

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Education

University of Waterloo

HONOURS MATHEMATICS

ON, Canada

Sep. 2014 - Dec. 2018

- Graduated from the University of Waterloo undergraduate Computer Science major.

Skills

Language Java, Python, C/C++, Racket, Bash, Mips, Matlab, SQL, Solidity

Web Javascript, html, css, NodeJs

Compiler Laxical analysis, Syntactic analysis, Semantic analysis, Code generation

Tools git, Bash Scripting, HomeBrew, Apache Spark, AWS Tools(S3, Lambda, API Gateway, EMR), npm, truffle

Experience

Ventureum

SOLIDITY ENGINEER

Toronto, ON, Canada

May 1, 2018 - Aug 30, 2018

- Used solidity to develop a contract that can be used to evaluate and audit individual virtual currencies.
- Used solidity to develop chain voting system CarbonVoteX. Where users can use the contract to provide a completely fair and equitable chain vote.

Amazon

SOFTWARE DEVELOPMENT ENGINEER INTERN (SDE-INTERN)

Vancouver, BC, Canada

Jun 5, 2017 - Aug 23, 2017

- Develop a performance test framework that can efficiently generate customized data which can be used to test an internal system.
- A language built with json-like format that allows users to customize multi-dimensional mock data.
- Used java AWS_EMR to develop a mock data generator, where you can generate large amounts of data in batches via map-reduce, stored in S3.
- A trigger was developed using AWS_API_GATEWAY, where the user can flexibly call and adjust the parameters of the system.

Bloomberg L.P. Code B (hackathon)

SOFTWARE ENGINEER

Biology 2 Building, University of Waterloo, ON, Canada

Mar 20, 2015 - Mar 21, 2015

- Used Python to analyze the bid and ask price of different companies
- Built an UI using Java to view the information of each stock

Projects

SudokuSolver

SOLO

Waterloo, On, Canada

Oct. 2017 - Oct. 2017

- A sudoku AI that can efficiently solve any sudoku problem.
- Main techniques: Backracking, Most Constrained Variable, Most Constraining Variable, least-constraining value.

Waterloo Quell+ Plus Prodigy (wqp2)

GROUP - BACK-END

Waterloo, On, Canada

Apr. 2017 - Apr. 2017

- A side project for Waterloo Equithon, that to show the gender equality.
- wqp2 is a single agent board game like the game 'Quell+' that the player need try to avoid wrong answers and get each right answers

WLP4 Compiler (with Assembler)

SOLO

Waterloo, On, Canada

Jan. 2016 - Aug. 2016

- Develop a compiler(and also a Assembler) for WLP4(waterloo language plus points plus procedures) which is a programming language contains a strict subset of the features of C++.
- After project done, the compiler can compile WLP4 language to Mips and compile(Assembler) mips to Object Language(Machine Language)