Martin Chu

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Skill Set:

Languages: C++, C, Java, SQL, Python, Visual Basic
Web Development: HTML, CSS, JavaScript, Node JS, Vue JS
Tools: Git, Jekyll

Side Projects:

Conway's Game of Life
Apr 17 - Present
- Developed a single page application that simulates Conway's Game of Life
- Used Vue JS to construct custom, dynamic components of the page
- Used Node JS to manage data for the application and socket.io to support asynchronous view across multiple browsers

Connect 4 Artificial Intelligence
Apr 17 - Present
- Developed an C++ artificial intelligence program that play against a human player in a game of Connect 4
- Applied the minimax algorithm to simulate future states and alpha-beta pruning to minimize search time
- Developed heuristics functions to evaluate future states
- The algorithm is estimated to have a 60% win percentage

Personal Website
Nov 16 - Present
- Created static personal website to integrate personal information, social media profile and professional profile
- Developed with HTML, CSS and JavaScript to enhance user experience
- Used Github Pages and Jekyll to build and serve the website

Job Experience:

Terminal 1, Hong Kong
Software Engineer
May 17 - Present
- Developing API to automate job posting process from internal server to job boards

AGF Management Limited, Toronto, Canada
Quality Assurance Associate
Sep 15 - Apr 16
- Tested internal applications and performed quantitative analysis with software developers
- Created SQL queries to consolidate data from multiple sources to automate and simplify standardized validation workflow process to promote delivery efficiency

PricewaterhouseCoopers LLP, Hong Kong
Tax Technology Consultant
Jan 15 - Apr 15
- Automated the workflow of internal document approvals and filings of over 1000 external client documents after participating and managing over 5 internal technology projects

Jones International Limited, Hong Kong
IT and Finance Intern
Apr 14 - Aug 14
- Analyzed over 400 business travel expenses entries, consulted with financial controller, and built modelling application to accurately forecast budget for future fiscal years and optimize capital structure of the firm

Education:

University of Waterloo, Waterloo, Canada
Hon. Computing and Financial Management, Co-op
Sep 13 - Present

Achievements:

Exchange Student (Computer Science) – **University College London**   2017
University of Waterloo President's Scholarship – **University of Waterloo**   2013