Alice Gao

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Skills

Languages: C, C++, Python, Java, HTML/CSS, JavaScript

Technologies: Git, React

Projects

Rubik's Cube Solver
GROUP   *Sep 2019 – Dec 2019*
- Designed and built a motor-powered machine that could solve any 3 by 3 Rubik's Cube in **30 seconds**
- Used **Python** to code an algorithm that provides a solution within **1 second** and sends rotation angles to **Arduino**
- To optimize user experience, a website was developed, allowing users to input the formation of a cube and display the solution with **Flask**

Personal Website
INDIVIDUAL   *June 2019 – Sep 2019*
- Designed a website to display my experiences in a dynamic and informative manner using **HTML** and **CSS**
- Modified **JavaScript** plugins and frameworks to create interactive and responsive animations
- Chose specific color palettes, layouts and fonts to reflect my personality in a creative way

Chatbot
INDIVIDUAL(ONGOING)   *Jan 2020 – Present*
- Using **Python**, **NLTK** and other frameworks to create a simple responsive chatbot that responds to common phrases and questions
- Creating a web app that allows people to interact with the AI in a more user-friendly and convenient environment with **React** and **Node.js**

Experience

City Library   *Coquitlam, BC*
HIGH SCHOOL MATH AND SCIENCE TUTOR   *Oct 2018 – Aug 2019*
- Improved students' academic performances up to **25%** by using tailored methods to explain difficult concepts
- Helped students develop time management and planning skills by sharing personal techniques
- Communicated actively with students and their parents to constantly improve my teaching style

H.Y.P.E (Humanitarian Youth With Purpose)   *Coquitlam, BC*
SCHOOL CLUB PRESIDENT   *Aug 2017 – June 2019*
- Oversaw all planning and execution of fundraising events, weekly meetings and outside connections
- Contributed **$1200** to the local homeless shelter through fundraisers and donations held in and outside of school
- Worked with executives and representatives from other schools to promote our cause through major events

Bubble Waffle Cafe   *Coquitlam, BC*
WAITRESS   *Sep 2018 – Aug 2019*
- Developed the ability to work efficiently and accurately under a fast-paced and pressuring environment
- Able to maximize customers' satisfactory levels by responding attentively to customers' needs and inquiries
- Suggested a collaborative plan for coworkers that drastically increased rush hour efficiency by **20%**

Recognition

2019	**RealNetworks, Inc. Entrance Scholarship for Women in Technology and Business** – $2000	
2019	**Pinetree Secondary Math Department Award** – Top performing math student from Gr. 9 - 12	
2015-19	**Honour Roll with Great Distinction** – Top 1% of the grade	

Education

University of Waterloo   *Waterloo, Ontario*
BACHELOR OF SOFTWARE ENGINEERING   *2019-2024 (Expected)*