

# Bill Zhao

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## TECHNICAL SKILLS

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**Programming Languages:** Java, C++, C, Python, HTML, CSS, PHP, JavaScript

**Engineering Software:** Visual Studio, Eclipse, Clion, Xcode, Weka

**Operating Systems:** Android, iOS, Windows, MacOS, Linux

## EDUCATION

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**B.S. Computer Science and Software Engineering, Minor Mathematics**

Expected Graduation June 2021

University of Washington

- GPA: 3.8
- Annual University Dean's List
- **Officer**, Association for Computing Machinery (ACM)
- **President**, Cru at UW (interdenominational faith-based organization)
- Relevant Coursework: Data Structures & Algorithms, Discrete Mathematics, Software Engineering, Analysis and Design, Management Principles, Hardware and Computer Organization, Operating Systems, Undergraduate Research

## PROGRAMMING AND RESEARCH PROJECTS

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**Machine Learning Research and Development**, Faculty Supervised Research

2019 - Present

- Perform in-depth computing research tasks about machine learning, designed a brochure explaining the general procedures of conducting computer-science-related projects for intermediate machine learning researchers
- Developed a program that predicts stock market trends based on the information from online discussion forums using Python and Weka (data mining software)

**20 Questions**, Computer Programming

August 2019

- Implemented a binary-tree guessing game simulating the machine learning algorithms using Java and C++
- Developed a binary tree program containing yes/no answers to different questions automatically learned from users' input or a designated input file with adjustable rubrics of scanning
- Advanced knowledge in class designing, object-oriented programming, and fundamental machine learning concepts

**Café and Pizzeria**, Computer Programming

February 2019

- Developed an automatic multi-class-based program for users to order customized drinks and pizzas using Java
- Implemented features such as vegan options, pre-order options, information/cost display, in-stock status checks, and scheduled delivery with notifications
- Utilized concepts such as 2-D expandable arrays, JOptionPane, File Input/Output, Try/catch blocks, cross-class polymorphism programming with object-oriented languages

## LEADERSHIP EXPERIENCE

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**Group Lead**, Bellevue Youth Leadership

2016 - 2019

- Held Thanksgiving events and the 2017 Lunar New Year event for over 800 participants and raised over \$1,000 for the children in need in Yakima, WA
- Campaigned for Bellevue City Councilman and Former Mayor Conrad Lee, participated and planned doorbelling activities for Mr. Lee's re-election
- Interpreted for Melinda City Councilman and Former Mayor Patrick Boyd at the Washington State Lunar New Year event

## COMMUNITY SERVICE AND INVOLVEMENTS

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**Teacher Assistant**, Seattle Chinese School

2016 - Present

- Collaborate with instructors and manage grading tasks with detailed feedback
- Provide tech support to other TAs/staffs and help to organize entertaining in-class activities and outdoor events for students from different backgrounds in different age groups (pre-school to peers)

**Volunteer Staff**, Jubilee REACH

2015 - Present

- Volunteer to help with community projects in public schools and neighborhoods
- Committed to volunteering for classroom preparations and planning at Jing Mei Elementary School in Bellevue