

Henry Xia  
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## Profile

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Competed in programming competitions for four years and math competitions for eight years, including both individual and team competitions. Experienced in algorithms and data structures.

**Programming Languages:** C/C++, Python, C#, Java, Golang

## Education

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UNIVERSITY OF BRITISH COLUMBIA, VANCOUVER, CANADA SEPTEMBER 2016 – PRESENT

Third Year, Combined Honours in Computer Science and Mathematics (Expected graduation: May 2021)

Courses include: Combinatorial Optimization, Theory of Computation, Probability Theory, Real Analysis, Analytic Combinatorics

## Experiences

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FACEBOOK AI SOFTWARE ENGINEER INTERNSHIP SEPTEMBER 2019 – NOVEMBER 2019

- Experimented with different attention gates and fusion architectures in multimodal models for video classification
- Implemented gating modules and fusion architectures using the PyTorch framework and observed improvements in accuracy

MICROSOFT SOFTWARE ENGINEER INTERNSHIP MAY 2019 – JULY 2019

- Created a dashboard to display the deployment progress for the Azure Kubernetes Service
- Learned to use Golang with Docker and Kubernetes to deploy the dashboard

MICROSOFT GARAGE INTERNSHIP MAY 2018 – AUGUST 2018

- Collaborated with BC Cancer to create a tool for visualizing cancer cells
- Designed and developed a mixed reality app and a companion web app using Unity and C#

UBC COMPETITIVE PROGRAMMING CLUB SEPTEMBER 2016 – PRESENT

- Discussed problems and implemented algorithmic solutions with other members
- Created interesting problems for practices
- Represented UBC in international competitions

UBC MATH CIRCLE JANUARY 2017 – PRESENT

- Volunteered at UBC Math Circle for high school students
- Led problem discussions and explained solutions during the weekly meetings
- Wrote problem sets featuring instructive problems of various difficulties

## Achievements

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- 1st in Division One, ICPC Pacific Northwest Regional November 2019
  - Teams of three compete to solve algorithmic problems for five hours
- Qualified for Facebook Hacker Cup (Top 200 in a worldwide competition) July 2019
- 45th at ICPC World Finals April 2019
- 120th in North America (top 3%), Putnam Math Competition December 2018
- 1st in Division One, ICPC Pacific Northwest Regional November 2018
- Stanley M Grant Scholarship in Mathematics September 2018
- Qualified for Google Code Jam Round 3 (Top 1000 in a worldwide competition) May 2018
- 130th in North America (top 3%), Putnam Math Competition December 2017
- Trek Excellence Scholarship for Continuing Students (top 5% at UBC) September 2017
- 2nd in Division Two, ICPC Pacific Northwest Regional November 2016