

Henry Xia
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Profile

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

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

Education

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

FACEBOOK AI SOFTWARE ENGINEER INTERNSHIP SEPTEMBER 2019 – NOVEMBER 2019

- Implemented various gating techniques and fusion architectures using the PyTorch framework to improve the accuracy of multimodal models in classifying videos

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#
- Discussed features with team and sponsors to determine our priorities.

UBC COMPETITIVE PROGRAMMING CLUB SEPTEMBER 2016 – PRESENT

- Discussed problems and implemented algorithmic solutions with other club members
- Created interesting problems for practices
- Helped new members understand problems and solutions

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

- 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