

JI TONG YIN | Curriculum Vitae

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Education

University of British Columbia, Vancouver, BC
MSc in Computer Science

Sept 2020 - Present

University of Toronto, Toronto, ON

Sept 2015 - May 2020

BASc in Engineering Science (Major in Engineering Mathematics, Statistics and Finance)

Cumulative GPA: 3.93/4.00

GRE: Verbal 162 / Quantitative 170 / Essay 5.0

Academic Experience

Teaching Assistant

Sept 2020 - Present

University of British Columbia, Vancouver, BC

- Led tutorials and performed assessment and marking for CPSC304 - Introduction to Relational Databases.

Faculty-Mentored Thesis

May 2019 - May 2020

University of Toronto, Toronto, ON

- Working on an undergraduate research thesis with the guidance of Professor Timothy Chan.
- Proposed Topic: Analyzing Curling Performance Using a Dynamic Programming Approach.

Research Assistant - Dynamic Graphics Project

May 2017 - Aug 2017

University of Toronto, Toronto, ON

- Conducted NSERC-sponsored summer research partially funded by Professor Kyros Kotalakos.
- Project Description: Calculating 3D Object Depth Using Structured Light Imaging.

Research Assistant - Intelligent Sensory Microsystems Laboratory

May 2016 - Aug 2016

University of Toronto, Toronto, ON

- Conducted a summer research project under the supervision of Professor Roman Genov.
- Project Description: Developing a Novel Biomedical Wearable for Performance Analysis through Unsupervised Machine Learning.

Presentations and Posters

Calculating 3D Object Depth Using Structured Light Imaging

Aug 2017

Presentation at Undergraduate Summer Research Conference

University of Toronto, Toronto, ON

DinoRun: A New Approach to Gamifying Fitness for Children

May 2016

Poster at University of Toronto Praxis Showcase

University of Toronto, Toronto, ON

Industry Experience

Software Engineering Intern - Shopify (International R&D Team)

May 2019 - Aug 2019

Toronto, ON

- Wrote backend code to create modelled data given an ingested input for a major new feature.
- Created an integration pipeline to allow Shopify partners to incorporate their own applications.
- Developed UI widgets to improve merchant experience and collect data on merchant behavior.

Software Engineering Intern - Stanza (Data Team)

May 2018 - Apr 2019

San Francisco, CA

- Implemented a backend API platform to centralize ad revenue payments and show revenue statistics.
- Developed automated jobs to query for and display engagement data.
- Created an event collection and transformation pipeline using AWS tools and Airflow.

Student and Volunteer Organizations

Mentor, NSight Mentorship Program

Sept 2016 - Present

- Mentored first-year students to help them with the transition to university.

Freelance Tutor

Sept 2017 - Present

- Tutored first-year students for an introductory undergraduate computer science course.

Member, Mechatronics Design Association

Sept 2015 - May 2017

- Developed and implemented marketing strategies to attract corporate sponsors.

Awards, Grants, and Scholarships

*Awards***MLH Anti-Harassment Hack Award**

Jan 2017

- Award given to the project that best addresses the problem of student harassment.

HackWithIX, 3rd Place

Oct 2016

The Game, 2nd Place (\$2000)

May 2016

- Semester long competition in which teams engineer a project to benefit the social good.

University of Toronto Dean's List (8 times)

Sept 2015 - May 2020

- Attained a 80%+ semester average.

Grants

NSERC Computer Science Undergraduate Student Research Award (\$6000) May 2017
- Proposal: Calculating 3D Object Depth Using Structured Light Imaging

Scholarships

The Crocker Foundation Bursary (\$2600) Dec 2016

Mario and Dorothy Pesando Scholarship (\$2567) Oct 2016

University of Toronto Scholar (\$6000) Sept 2015

Skills

Programming

Python (including numpy, matplotlib, scipy) • MATLAB • R • C • C++ (using OpenCV) • HTML/CSS • Javascript (node.js, react) • LaTeX • VBA

Other

Engineering Design • UI Design (Figma) • EMG data collection in humans • Circuits • Statistical Computation Methods

Relevant Coursework

Computer Science

Data Structures and Algorithms • Computer Graphics • Computer Vision • Introduction to Databases • Introduction to Machine Learning • Human-Computer Interaction

Statistics and Applied Math

Probability and Statistics • Vector Calculus • Ordinary Differential Equations • Partial Differential Equations • Waves • Methods of Data Analysis • Real Analysis • Stochastic Processes