

# Matthew Jiao

CHASING MY DREAMS

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## Education

### Bayview Secondary School

Richmond Hill, Canada

GRADUATING

2016 - 2020

- **Selected courses:** English(12U), Physics(12U), Chemistry(12U), Biology(12U), Calculus and Vectors (12U), Data Management(12U), Advanced Functions(12U), Challenge and Change in Society(12U), Computer Science(12U), Business Leadership(12M), Popular Culture(12U)
- **Academic performance:** Qualified for the Honors Roll for four years, Software Engineering admissions average 97.83%

## Experience

### Da Vinci Engineering Enrichment Program at the University of Toronto

Toronto, Canada

FELLOW

July 2019 - August 2019

- S-ICO-2B, S-PDF-3, S-HTP-2, J-ICO-4

### Bayview Euclid Math Club

Richmond Hill, Canada

PRESIDENT

Sept. 2018 - June. 2020

- Taught high school students competitive mathematics in preparation for the Euclid, COMC, CSMC, and other senior level competitions.
- Prepared weekly lesson plans on theory and applications of various mathematical properties in areas of number theory, analytic geometry, abstract algebra, series & sequences, combinatorics, trigonometry, logic, proofs, etc...

### Bayview Engineering Club

Richmond Hill, Canada

PRESIDENT

Sept. 2016 - July. 2020

- Lead a team of students in organizing school-wide engineering competitions to promote pathways in STEM.
- Built the club's website with JavaScript, HTML5/CSS to enhance club awareness and spearheaded a new creative writing department.
- Increased membership by 4x since appointed to the executive team.

## Projects

- **Lynz:** Web app that uses crowdsourced data to show the busyness of grocery stores built for the COVID-19 situation using React.js, Express, Node.js, and MongoDB. Available at <https://github.com/MatthewJiao/Lynz-Frontend>.
- **MattBot:** Chatbot that outputs an appropriate response using two hidden layers taking in one hot encoded input data built using Google's Tensorflow framework in Python. Available at <https://github.com/MatthewJiao/MattBot>.
- **NumberFury:** Android game that challenges users to recognize prime numbers and linear combinations built using Java. Available at <https://play.google.com/store/apps/details?id=number.fury.application>.
- **RSA Encryption:** Encryption Editor to encrypt and decrypt messages based on RSA public and private keys built using JavaScript and BigInteger API. Available at <http://rsa-encryption-editor.rf.gd/>.

## Achievements

- **Canadian Math Society - Canadian Open Mathematics Challenge 2019:** Top 10% out of 7000+ contestants.
- **University of Waterloo - Canadian Senior Mathematics Contest 2019:** Top 4% out of 18502 contestants
- **University of Waterloo - Hypatia Mathematics Contest 2019:** Top 1.6% out of 8656 contestants and School Champion Medal.
- **Purple Comet Team Mathematics Competition 2020:** 72/350 teams internationally and 2nd in Canada.
- **Da Vinci Engineering Enrichment Program 2019:** One of 5 students (out of 35) selected for the DEEP Product Design Award.
- **Various soccer accolades:** Richmond Hill Soccer League 2017 (League Champions), Richmond Hill Soccer League 2016 & 2015 (League Champions and Playoff Champions).

## Skills

- **Programming languages:** JavaScript, Java, Python, HTML, CSS, XML.
- **Platform and Technologies:** Windows, Git, TensorFlow, React.js, Node.js, MongoDB.
- **Miscellaneous:** Cryptography, Math problems, Watering orchid, Party games, Re-watching Avengers Endgame.