

# Joseph Chen

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[GitHub](#); [Kaggle](#); [Personal Website](#)

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## Education

Queens High School for the Sciences at York College  
All coursework is honors or AP; Grade point average: 100.57%

*Sept. 2016 to Present*

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## Honors and Awards

**New York Science and Engineering Fair Second Award for Computer Science Research**

*March 2018*

**Con Edison Innovations in STEM Award (\$500)**

*March 2018*

**New York Science and Engineering Fair Third Award for Computer Science Research**

*March 2019*

**Junior Science and Humanities Symposia (JSHS) Finalist in the Computer Science**

*February 2019*

**Bronze Medal (171/2431) in the Severstal: Steel Defect Detection Challenge**

*October 2019*

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## Research Experience

**A 2D U-Net for Automated Kidney and Renal Tumor Segmentation** 2019

- Submission for the 2019 Kidney Tumor Segmentation Challenge

**Capsule Networks for the Automated Segmentation of Left Atrium in Cardiac MRI** 2018

- Independent study evaluating the performance of 2D Capsule Networks for the automated segmentation of left atrium in cardiac MRI.

**The Automated Segmentation of Soft-Tissue Sarcoma using CNNs** 2017

- Independent study on the effect of convolutional neural network architecture on automated soft-tissue sarcoma segmentation performance in CT scans.
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## Publications

- Chen, Joseph & Jin, Benson. (2019). A 2D U-Net for Automated Kidney and Renal Tumor Segmentation. 10.24926/548719.089.
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## Skills and Strengths

- Confident in Python (Tensorflow, Keras, Pytorch, Catalyst, sklearn, pandas)
  - Intermediate experience with HTML, CSS (Bootstrap), and JavaScript (React)
  - Fluent in Chinese
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## Additional Experience

**QHSS Team Cyber**  
*President*

*Fall 2017 to Present*

- Learning about web development (HTML, CSS, JS). Currently, leading the development of our own website and web-dev related projects.

**K-Pop Dance Club**

*Fall 2017 to Present*

*Member*

- Work in teams to perform K-Pop dances in school events (school concerts and talent shows, Halloween parade)