

# Xiaoyu (Claire) Yuan

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## OBJECTIVE

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A third-year student looking for intern or coop, double major in computer science and chemical engineering.

## EDUCATION

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**Georgia Institute of Technology**  
**Bachelor of computer science**

**08/2013 – 05/2017 (expected)**

## SKILLS

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- Programming language: Java, D3, MYSQL, C, Python, Typescript, MATLAB, Assembly, Mathematica.
- Algorithm knowledge: basic algorithms in data structures, sorting, graph theory and computer graphics.
- Statistical knowledge: t-test, z-test, etc.
- Language: English, Mandarin Chinese, Cantonese.
- Operating system: OS, Windows, Linux.
- GitHub User

## RESEARCH

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**Astronomy education web app developer and UI designer**

**08/2015 - 12/2015**

**Georgia Tech undergraduate research**

- Increase user's participation with an astronomy education website by using Mathematica library and GUI functions to build user-interactive applications.
- Helped in backend by implementing Mathematica notebook and CDF player into web files.
- Designer of frontend with Bootstrap.

## PROJECTS

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**Software engineer for movie rating website**

**05/2015 - 08/2015**

- A in-class group project designing a movie rating web using rotten tomatoes API
- GitHub was used for version control
- In charge of use cases and evaluation using JUnit test
- Helped in writing backend controllers

**Software engineer and DBMS administrator for restaurant inspection reports**

**05/2015 - 08/2015**

- The administrator using MySQL of database management system of restaurant inspection reports in Georgia
- Developed an application in Python to for data demonstration
- Helped in design the functional GUI allowing user to insert, view and search the restaurant and corresponding reports based on their requirements.

**Graphical interactive web apps designer**

**08/2015 - 12/2015**

- Designed several 2-D and 3-D Graphics web interactive applications using WebGL and typescript
- Applied basic computer graphics algorithms in shadow, shading, transformation, camera view, subdivision, textures, etc.
- Projects include designing image loading tools, personal portfolio in 3-D transforming animation and user-interactive web apps.

**Data Visualization project for DotA2 statistic using D3**

- A group project currently in progress, aiming to build interactive webpage of data visualization to display data for matches in the famous online battle video game Defense of the Ancient (DotA2)
- Using D3 for building up interactions
- Taking the role of designer of visualization