

Alexander Y. Liu  
331281 Georgia Tech Station  
Atlanta, GA 30332-1400

703.220.5928 (cell)  
aliu338@gatech.edu  
<https://github.com/2019aliu>

## Education

### Georgia Institute of Technology

Atlanta, GA

*B.S. Computer Science, 2023 (Planned minor Biomedical Engineering)*

*August 2019 - Present*

- Selected courses: Data Structures and Algorithms, Linear Algebra with Abstract Vector Spaces, Statistics and Applications

### Thomas Jefferson High School for Science and Technology

Alexandria, VA

*Main Interests: Computer Science, Neuroscience*

*September 2016 - June 2019*

- Selected coursework: Mobile Application Development, Web Application Development, Artificial Intelligence, AP Computer Science A Plus Data Structures, Neuroscience Research Lab, Neurobiology

## Skills

**Languages:** Java, Python, Golang, JavaScript, Node.js, HTML, CSS, SQL (MySQL and MongoDB), Markdown, Git, Latex, Bash

**Software:** Postman, Linux OS (Ubuntu and Fedora flavors), Node-RED, Android Studio, Firebase, Visual Studio Code, IntelliJ IDEA, PyCharm, jGRASP, Microsoft Office, Microsoft Windows

**Miscellaneous:** Great troubleshooting and debugging skills, great at explaining concepts to other people

## Projects

- **FasterIncidentResponse (FaIR)** Greenbelt, MD  
*Fluency Security Corporation* *June 2019 - August 2019*
  - Developed a MongoDB-Gin-Vue.js-Golang webstack formatted with Bootstrap to make a trouble ticketing system for Fluency Corporation's log management software
  - Wrote first copy of developer documentation using Postman, Markdown, and Web Developer tools
  - Unit tested Fluency Corporation's product using Golang's default unit testing framework
  - Learned fundamental security incident and event management (SIEM) skills, as well as internet structure, HTTP protocols, and unit testing
  - Technologies used: Golang (including Gin server), MongoDB, Bootstrap, Vue.js, Node-RED, Visual Studio Code
- **Website Developer** Great Falls, VA  
*Hope Chinese Schools* *August 2018*
  - Helped form the Django server, contributed a "Student Corner" feature
  - Assisted with website development, currently administrate the website
  - Technologies used: HTML/CSS/JS, LAMP/WAMP Stack, Node.js
- **Othello AI** Alexandria, VA  
*Artificial Intelligence* *December 2017 - January 2018*
  - Coded an AI that can intelligently play the classic board game Othello
  - Explored algorithms in AI, including BFS/DFS, minimax (and negamax),  $\alpha$ - $\beta$  pruning
  - Technologies used: Python