

# Crystal Wang

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## EDUCATION

### Massachusetts Institute of Technology

*BS in Computer Science anticipated May 2023*

- Relevant Coursework: Fundamentals of Programming, Math for Computer Science, Principles of Macroeconomics, Introduction to Algorithms, Introduction to EECS via Interconnected Embedded Systems, Principles of Microeconomics

### Stuyvesant High School

*Stuyvesant Diploma June 2019*

- SAT: 1590 (800 Math, 790 English); GPA: 96.69/100
- Relevant Coursework: AP Computer Science A, Systems Level Programming, Complex Analysis, Multivariable Calculus

## EXPERIENCE

### Bloomberg LP | *Software Engineering Intern*

May 2020 - August 2020

### MIT EECS Department | *Lab Assistant*

February 2020 - Present

- Assist students in office hours for Fundamentals of Programming class and administer graded interviews regarding labs
- Complete coursework before its release to students and provided feedback on class material

### MIT Fall Career Fair | *Week-of Logistics Director*

February 2020 - Present

- Organize information sessions and coffee chats for the Career Week
- Lead recruitment and organization of student volunteers, as well as the selection and execution of volunteer incentives

### SciSquare | *Associate Developer*

May 2019 - Present

- Programmed a citation search tool using SQL and HTTP requests to accumulate research papers that used each product
- Implemented the search tool into the existing front-end using ReactJS, HTML, and CSS

### Toll International LLC | *Software Engineering Extern*

January 2020 - January 2020

- Submitted proposals and pre-qualification forms to major transportation agencies such as Port Authority
- Created a system to automate proposal creation using Google APIs and reduced time of task from 5 hours to 2 minutes

### Bloomberg LP | *Software Engineering Intern*

June 2019 - August 2019

- Created scripts for producers and consumer groups that use a Kafka-based pipe in order to index MIFID trades to Solr
- Formulated an automated metrics collection system to consistently gauge performance and alert users in case of an error

### Bloomberg LP | *Software Engineering Intern*

July 2018 - August 2018

- Designed and coded a system to index complex financial logs into an online database to save the company \$200,000/yr
- Developed a front-end component to visualize the logs for data aggregation, searching, charting, etc.
- Discovered an error in the NASDAQ FIX communications and protocol that interfered with compliance actions

## HONORS

### Computer Science & Mathematics

- 2020 Rewriting the Code Fellow June 2020
- 2020 Capital One Best Financial Hack at TechTogether Boston January 2020
- 2019 Henrietta O. Midonick Award for Excellence in Mathematics June 2019
- National Center for Women & Information Technology (NCWIT) Computing Award: Affiliate Winner February 2019
- NCWIT Computing Award: National Honorable Mention January 2019
- 3rd Place at University of Pennsylvania PClassic Programming Competition, Standard Division April 2018
- Gold Medal at New York City Math Fair March 2017

### Economics

- 2019 Jane Street Estimathon Winner July 2019
- 2019 New York Economics Challenge State Winner April 2019
- 2019 High School Fed Challenge, Liberty Street Division Semifinalist April 2019

## SKILLS

- **Languages:** Python, C, Java, HTML, CSS, JavaScript, C++, Ruby, Scheme, SQL, XML
- **Editors:** Eclipse, Sublime, Atom, Emacs, Visual Studio Code, VIM, Jupyter Notebook
- **Other Technologies:** Apache Solr, Apache Kafka, ReactJS, Google Drive API, REST API