

# Abby Tse

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Queens, New York

## EDUCATION

### Fordham University – Bronx, NY

Bachelor of Science, Computer Science

Major GPA: 3.93/4.0, Overall GPA: 3.66/4.0

Expected Graduation: May 2020

## WORK EXPERIENCE

### Federal Reserve Bank of New York — New York, NY

#### Software Engineer Intern

Jun 2019 – Aug 2019

- Decreased operational tickets by 20% by creating self-healing automation programs.
- Utilized SMTP library to design a tool that would email Nexus account updates to users.
- Implemented unit & integration tests for programs using JUnit & Selenium.
- Configured CI/CD pipelines in Jenkins to automate QA testing.
- Collaborated with team by being involved in daily scrum & sprint meetings.
- Developed software using Java, Spring, Maven, and various APIs.

### Fordham Information Technology — Bronx, NY

#### Data Engineer Intern

Jan 2019 – May 2019, Aug 2019 – Present

- Created employee commute analytics to advocate for work from home efficiency.
- Developed ETL processes for data sources to integrate into reporting components.
- Worked with users to gather requirements to improve the dashboard usability.
- Used PowerBI & APIs to create dashboards and reports.

### Fordham Computer & Information Sciences — Bronx, NY

#### Teaching Assistant

Jan 2019 – May 2019, Aug 2019 – Present

- TA for core senior level course: Data Communications & Networks (CISC 4615).
- Tutored over 150 students through review sessions & office hours.
- Effectively explained networking protocols & other topics.

### Brookhaven National Laboratory — Long Island, NY

#### Engineering Research Intern

Jun 2018 – Aug 2018

- Programmed an I/O application & designed a GUI to control a waveform generator.
- Established TCP/IP connections between digitizers & EPICS environment.
- Analyzed resolution & voltage linearity to determine if digitizers could replace equipment.
- Presented research at the Brookhaven Summer Research Symposium.
- Published research paper in the Fordham Undergraduate Research Journal.
- Used Python with NumPy and Pandas modules for statistical analysis.

## PROJECTS

### Auction Base System

- Developed code to extract & parse historical eBay data and bulk write to SQL database.
- Created CLI tool to return results of SQL query through high-level user commands.

### Peapod E-Commerce Client-Server Application

- Developed a full stack multi-tenant Java e-commerce desktop application with JavaFX.
- Users could create profiles, add/remove items into grocery carts, & checkout orders.

## SKILLS

- C++, Java, Python
- Linux/Unix, Bash, Vim
- Git, Subversion
- Jenkins, Nexus
- JUnit, Selenium
- Spring, Eclipse, Maven
- MySQL, PowerBI

## COURSEWORK

- Operating Systems
- Computer Algorithms
- Data Mining
- Data Structures
- Database Systems
- Software Engineering
- OOP in C++
- Discrete Mathematics
- Physics

## CERTIFICATIONS

- Microsoft Professional Data Science Program

## AWARDS

- Dean's List First Honors
- Collegiate Science and Technology Entry Program Scholarship Recipient
- INROADS Rekha Tahilani Memorial Scholarship
- Tzu Chi Scholarship
- Fordham Jogues Scholarship
- NY AIMS Merit Scholarship

## LEADERSHIP

- Tzu Chi Collegiate Association President
- Commuter Student Services Marketing Coordinator