

Abby Tse

 (347)-885-9866 |  abbytse7878@gmail.com |  Queens, NY

EDUCATION

Fordham University, Bronx NY

2016 — 2020

Bachelor of Science, Computer Science

Major GPA: 3.94/4.0, Overall GPA: 3.69/4.0, *Cum Laude*

Relevant Courses: Object Orientated Programming in C++, Java Programming, Data Structures, Computer Algorithms, Data Mining, Applied Statistics, Calculus-Based Physics, Operating Systems, Data Communications & Networking

SKILLS

- C++, Java, Python, MySQL
- Linux/Unix, Vim
- Maven, Jenkins, Nexus
- JUnit, Selenium
- Git, Subversion
- Spring Rest Template

CERTIFICATIONS

Microsoft Professional Data Science Program

- Python for Data Science
- Data Visualization with Power BI
- Querying Data with Transact-SQL
- Analytics Storytelling for Impact
- Essential Math for Machine Learning
- Ethics and Law in Data Analytics

EXPERIENCE

Fordham Information Technology, Data Science Intern

Jan 2019 — Present

- Created employee distance reports with Python, Power BI & APIs (Bing, ArcGIS Maps) to determine Covid-19 containment areas and analyze work from home efficiency.
- Developed extract, transform, and load (ETL) processes for data sources to integrate into reporting components.
- Communicated with users (HR, CIO) to gather requirements & improve dashboard usability.

Federal Reserve Bank of New York, Software Engineer Intern

Jun 2019 — Aug 2019

- Decreased operational tickets by 20% by developing self-healing Java automation programs using Spring, Maven, & APIs.
- 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.

Fordham Computer & Information Sciences, Teaching Assistant

Jan 2019 — Dec 2019

- 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, Engineering Research Intern

Jun 2018 — Aug 2018

- Programmed an I/O application & designed a graphical user interface (GUI) to control a waveform generator.
- Established TCP/IP connections between digitizers & EPICS environment.
- Statistically analyzed digitizer's performance using Python modules (NumPy, Pandas).
- Presented research at the Brookhaven Summer Research Symposium.
- Published research paper in the Fordham Undergraduate Research Journal.

PROJECTS

Auction Base System

- Developed Python code to extract & parse historical eBay data & bulk write to SQL database.
- Created a command line input (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 application with JavaFX and Java Socket Programming.
- Client applications allow customers to create profiles, add/remove items into grocery carts & checkout orders.
- Server application allows managers to view daily consumer statistics — profit, items purchased, truckload.

ACHIEVEMENTS

Awards: • Collegiate Science and Technology Entry Program Scholarship Recipient • INROADS Rekha Tahlani Memorial Scholarship • Tzu Chi Scholarship • Fordham Jogues Scholarship • NY AIMS Merit Scholarship

Leadership: Tzu Chi Collegiate Association President • Commuter Student Services Marketing Coordinator