

# Yong (Caleb) Zhou

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Detail-oriented undergrad with a solid foundation in software programming development, seeking to leverage my coding and analytical skills as an analyst career. My goal is to be a data scientist to scale analytical solutions to business problems

## WORK EXPERIENCE

Software Development Intern | BCTC technology Sep 2017 - Jan 2018

- ◆ Tools: Node.js, MongoDB, JQuery.js, JavaScript, Bootstrap, React.js, HTML, CSS
- Identified clients' preference to designed web pages by devising different techniques in server-side and client-side
- Established User Login by third-party Oauth, integrated passport.js library to look up and create user info, decode cookies
- Created the MongoDB module, schema to save data in our database and display products on different thumbnails to clients

**Data Analyst and Undergraduates Research** | NSF's Jun 2017 - Sep 2017

- ◆ Tools: Python, RapidMiner, Machine Learning (Topic Modeling), Scikit-Learn, Excel
- Identified driving factors (customer purchase frequency, monetary decision, etc.) for downstream analysis and modeling for customer churn in supermarkets
- Implemented data cleaning and business logic to derive customers and products departmental KPI
- Developed Cross-validation that outperformed the baseline model by 4% to improve the supermarket decision making

## PROJECTS

**Data Analysis on Tesla Inc's Stock and Media** | Boston University Dec 2018 - Nov 2018

- ◆ Tools: Python, R, Shiny, NLP, Machine Learning, AWS, RStudio,
- Evaluated effect of variables on Tesla's stock price prediction price from different Media by regressed scores
- Researched on the correlation of Tesla stock price trend and news (CNBC, etc.) release
- Delivered real-time insight to help beginners and professionals trade through Shiny app deployed on AWS

**Role-Playing Game** - (Team leader of three members) Dec 2016

- Designed, created zombies and human role-playing video game with multiple files, classes, modules by different functionalities
- Applied **OOP** principle to encapsulate functionalities and make implementation extensible and reusable

## LEADERSHIP

Executive Treasure for Student Government Association (SGA) | LaGuardia College (CUNY) Jun 2016 - Sep 2017

- ◆ Tools: Excel, Dash board, Tableau, Word
- Created monthly reports by analyzing student activities fee for college associate meeting in 40+ clubs and events
- Collaborated with Business department and allocated \$79,670 budget for SGA activities to create events
- Monitored College Association financial account of \$ 1.4 million, reported expenses weekly and calculated budget by Excel, and analyzed the approved expenses

## SKILLS

- Python | **Java** | C++ (4yrs) | **R** | SQL | JavaScript | Node.js | Machine Learning | jQuery.js | MongoDB | Git
- IDE: Eclipse | PyCharm | Dr. Java | VSC | Virtual Studio | Android Studio | Virtual Studio Code | Jupiter Notebook
- Experienced: in Linux, windows, mac | Analysis in R & Python & SQL & Excel | Android & Web application

## EDUCATION

**Boston University** (Graduated: Dec 2019) 2017 - 2019  
*Bachelor Science of Computer Science* Major GPA: 3.25 / 4.0

- ◆ **Related course: SQL, Hadoop NoSQL** (Relational, semi-structured XML, **JSON in Java**), Data Science in **R**, Python development of services and tools in analysis, applied Java in data structure & SQL, OOP system in C++

**LaGuardia Community College** | CUNY 2016 - 2017  
*Computer Science* GPA: 3.88 / 4.0