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|  | Yong (Caleb) Zhou | |
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Detail-oriented undergra with 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 solutions

**WORK EXPERIENCE**



**Software Development Intern,** BCTC technology **Sep 2017 – Jan 2018**

* Collaborated with 3 other experienced software developers in **Node.js framework** and **MongoDB**
* Established User Login by third-party **Oauth**, integrated passport.js library to look up and create user info, decode cookies

• Developed online Chatting functionality with bi-directional data flow by setting up Socket.io between client and server sides

* Created MongoDB module, schema to save data in our database and display products on different thumbnails to clients
* Designed and imitated several web pages in HTML, CSS, JavaScript, JQuery and Bootstrap, React by our clients’ preference

**Data Analyst and Undergraduates Research,** NSFs **Jun 2017 – Sep 2017**

* Customer churn statistics prediction for supermarket using **SciKit-Learn** Machine Learning with **Python** and **RapidMiner**
* Tools: Python, RapidMiner, Machine Learning,
* Utilized data exploratory data analysis to determining driving factors() customer behaviors on Customer churn prediction
* Identified driving factors(example) for customer churn for downstream analysis and modeling
* Implemented data cleaning and business logic to derive departmental KPI
* Develop Random Forest model that outperformed baseline model by 4% to improve customers churn rate

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

* 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; analyzed the approved expenses.

**PROJECTS**



**Data Analysis on Tesla Inc’s Stock and Media Dec 2018 – Nov 2018**

* Filtered and Analyzed past two years dataset that was crawled from Tweetsand Tesla daily stock price by Python & R
* Utilized NLP to assign tweets with 8 different emotion scores and implemented the Correlation Matrix and regressed scored scores on 10 sentiments of tweets to analyze the effect of variables regarding Tesla’s stock price
* Researched on the correlation of XX and XX
* Delivered real-time insight to help XX trade through Shiny app deployed on AWS
* Built Shiny app visualizing CNBC’s tweets and sentiments for selected periods on the stock charts

**Role-Playing Game (C++)** **Dec 2016 – Dec 2016**

* Implemented 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

**SKILLS**



* Python, **Java**, **C++** (4 yrs), **SQL, R**, JavaScript, Node.js, HTML, CSS, jQuery.js, MongoDB, Firebase, Git
* IDE: Eclipse, PyCharm, Dr. Java, VSC, Virtual Studio, Android Studio, Virtual Studio Code, Jupiter Notebook
* Experienced in Linux environment, Android application programming, Front-end with React, Data analysis in R & Python

**EDUCATION**

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| --- | --- |
| **Boston University** *(Graduated: Dec 2019)* | **2017 – 2019** |
| *Bachelor Science of Computer Science* | Major GPA: 3.35 / 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