Yong (Caleb) Zhou

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**EDUCATION**

**Boston University** *(Graduated: Jan 2020)* **Dec 2017 – Jan 2020**

*Bachelor of Computer Science*

* **Related courses**: Applied **Java** in data structure, Algorithm, SQL | Tool of Data Science in **Python** | OOP system in C++ | **Full Stack Dev** | Tool of Data Science in Pandas, NumPy, Kmeans, SVM, etc

# WORK EXPERIENCE

**Software Development Intern,** *AEVEX Aerospace* **May 2019 – Aug 2019**

* Established different models for the detection and segmentation on infrared images with fires, and deployed various custom object detection models on Jetson Nano development Kit by tested and trained models on Linux and Windows
* Outperformed 85% overlay with ground truth on test data set and customized in collecting labeled samples and **tune R-CNN**

parameters in improving classifier performance

* Implemented Python scripts to standardize input format of JSON file to fit the requirement of the model for the grand-truth

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

♦Tools: Node.js, MongoDB, JQuery.js, JavaScript, Bootstrap, React.js, HTML, CSS

* Identified clients' preferences to design web pages by devising different techniques in server-side and client-side development
* Implemented user login via third-party Oauth protocol by using passport.js library to look up user info, create profiles and decode cookies
* Created a MongoDB schema and module to save data in our data base and display products on different thumbnails to clients

**Big Data Developer and Undergraduates Research,** *NSF* **Jun 2017 – Sep 2017**

♦Tools: Python, RapidMiner, Machine Learning (Topic Modeling), Scikit-Learn, Excel

* Implemented data cleaning and business logic to derive customers and products departmental KPI
* Identified driving factors (customer purchase frequency, monetary decision, etc.) for downstream analysis and modeling for Customer churn statistics prediction
* Developed Cross-validation that outperformed he baseline model by 4% to improve the supermarket decision making

# PROJECTS

**Mobile Application Development (Java) |** Boston University  **Nov 2019**

♦Tools: Java, Google Fit API, Google Map API, AWS Lambda, Redis

* Designed and Created an app to track user’s and their friends’ daily steps and health status
* Implement the service for saving and broadcasting the running stats (steps and location) by AWS lambda and Redis

**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 effects of media sentiment on the predicted price of Tesla stock using regression analysis
* Delivered real-time insights to help beginners and professionals trade through Shiny app deployed on AWS

**Bomberman 3D Game on Unreal Engine 4 Apr 2017 – May 2017**

* Worked with 2 other developers to develop a 3D version Bomberman from scratch using **Unreal Engine 4**
* Created game playing AI for in-game characters using 3D blueprints graph
* Established the logic behind and animating, such as planting, exploding, and animating the bombs

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

♦Tools: C++, OOP

* Designed a zombies vs human role-playing video game with multiple files, classes and modules containing different functionalities
* Applied OOPprinciple to encapsulate functionalities and make implementation extensible

# SKILLS

* **Java** | Python | MongoDB | SQL | Git | AWS | C++ | Excel
* IDE: Eclipse | Visual Studio | Android Studio | Visual Studio Code | Jupyter Notebook | PyCharm | Dr. Java
* Experienced in **Windows XP, 10, Linux**, MacOS | SDLC | Time Management | Communication Skills | Project Management
* Hobbies: Reading | Guitar player | Cooking