Yong (Caleb) Zhou

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Highly-talented senior student with solid foundation in software programming development, seeking to leverage my coding and analytical skills as a software engineer job

WORK EXPERIENCE

Deep Learning Software Development Intern, AEVEX aerospace

May 2019 - Aug 2019

- Established Mask R-CNN model for the detection and segmentation on infrared images with fires, and deployed different object detection models on Jetson Nano development Kit by tested and trained models on Linux or Windows
- Customized in collecting labeled samples and tune R-CNN parameters in improving classifier performance
- Outperformed 80% overlay with ground truth on test data set, using the latest version of trained model
- Formalized Python scripts to standardize input format of JSON file for the requirement of the model
- Designed and implemented a button-based feature to automatedly extract coordinates of classified fire-area polygons by C# on GeoFOCIS

Software Web 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

Big Data Developer and Undergraduates Research, NSF

Jun 2017 – Sep 2017

- · Customer churn statistics prediction for supermarket using SciKit-Learn Machine Learning with Python and RapidMiner
- Filtered and implemented analytics logic and calculated features like customer purchase frequency, monetary consideration and volume on 1.5 years of data
- Trained Random Forest model and used 5-fold cross validation model and achieved 93% accuracy against 89% of an old Logic Regression model
- Utilized data exploratory data analysis to determining driving factors customer behaviors

PROJECTS

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 - 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), JavaScript, R, Passport.js, HTML, CSS, MongoDB, Firebase, SQL, Git
- IDE: Eclipse, Virtual Studio, Android Studio, Virtual Studio Code, Jupiter Notebook, PyCharm, Dr. Java
- Experienced in Programming in Linux environment, Android application programming, Front-end with React

EDUCATION

Boston University (Expected graduation date: Dec 2019)

Bachelor Science of Computer Science

Jan 2018 – Dec 2019 Major GPA: 3.35 / 4.0

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

LaGuardia Community College, CUNY

Mar 2016 - Dec 2017

Computer Science GPA: 3.88 / 4.0