JUNHE ZHANG

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EDUCATION

Stony Brook University *August 2017 - expected December 2019*
BS - Senior student at Computer Science
College of Engineering and Applied Sciences
GPA: 3.23/4.0
Relevant Coursework:
Artificial Intelligence, Data Analysis and Statistics, Analysis of Algorithms, Finite Mathematical Structures, Software Design, Data Structures, Computer Organization and Architecture, Principles of Database Systems, Principles of Programming Languages

LANGUAGES

Proficient: Python, Java, C
Prior Experience: JavaScript, C#, C++, HTML/CSS, MySQL

PROJECTS

Electronic Commerce System (ECS) — Python, JavaScript, HTML, CSS, MySQL
Ecommerce system supports multiple purchasing activities concurrently among users and sellers.
Front-end implemented with JavaScript, interface with HTML and CSS.
Back-end implemented using Python Flask microframework, using MySQL to access and maintain database.

Self-defined Basic Meta Language (SBML) — Python
SBML built with Python Lex-Yacc.
Using LR(1)-parsing to build parse tree which sustain efficiency and well suited for larger grammars.
SBML has combination of features of SML, Java, Python and some unique expressions as needed

What is this thing (WiTT) — Java
Andorid app that recognizes objects in the camera view and translates them.
Tap an object to display its name in two languages in augmented reality.
Translations are cached using NoSQL to reduce loading time and API calls.

Supervised Learning with WEKA on Bakary Data — WEKA
Used the Waikato Environment for Knowledge Analysis suite to train and analyze the behavior of chemical element data.
Used full learning, contrast learning, and limited learning to generate a high accuracy data classifier.

Data Visualization Library in Java (DataViLiJ) — Java, JavaFX
Designed and implemented a library for data visualization and analysis.
Users import data and select from machine learning algorithms to discover trends.
Implemented k-means clustering and linear classification algorithms; users can also import their own.

Printer Job Assigning System — C
Assigns print jobs to an array of multiple printers.
The user can set up the number of printers and their available print types.
The system can assign multiple jobs at once to minimize total print time.