75 Peterborough st. Apt 311, Boston, MA 02215 | hou.yu@husky.neu.edu | 857-207-9383 | Seeking for Full Time Position

Objective

• Looking for full time **SDE** / **Full-Stack** position starting from Spring 2019.

Education

Northeastern University, Boston, MA

Master of Science in Computer Engineering – GPA: 3.686

Anticipated Graduation: Dec 2018

Courses: Object Oriented Programming, Database System, Computer Network, Pattern Recognition and Machine Learning, Data Visualization, Parallel Data Processing, Computer Architecture

Tianjin University of Science and Technology, Tianjin, China

Bachelor of Engineering in Automation – GPA: 3.45

June 2016

Awards: First Prize – China Undergraduate Mathematical Modeling Contest in Tianjin Province

Technical Skills

- Computer Languages: JAVA (proficient), Python(proficient), JavaScript, SQL, shell
- Computer skills: GIT, AWS (Alexa, Lex, Lambda function), Django, React, Node.js, JQuery, Bootstrap, Swing
- Computer Tools: MySQL, Postman, PostgreSQL, Eclipse, IntelliJ, PyCharm, Spark, Visual Studio, JIRA

Job Experience

> Software Development Co-op

Orig3n, Boston, United States of America

July 2017-Dec 2017

- Integrated AWS Lex chat bot into Orig3n website using lambda function, built up user interaction interface.
- Designed the model of subscription product, and implemented the creation, editing page for the product.
- Developed the registration page for Baltimore Ravens' DNA day event using **Django** and Postgres.
- Implemented unit test on the Django framework.

> Full Stack Developer Intern

Bettem Corporation, Shanxi, China

Nov 2015-Mar 2016

• Developed an online lottery module for a conference software using **Bootstrap**, **React and Node.js**. Meeting conductor can draw lottery for all the participants.

Course Project Experience

> Financial Tracking System based on JDBC and Swing Framework, Team member

Northeastern University, Boston, MA

Jan 2017-Apr 2017

- Built the relational model using MySQL and implement functionalities using JDBC and Swing Framework.
- The financial system allows users to track their net finances (income, expenses, etc.) on an individual and groupbasis. Logs of these instances may be categorized and displayed to the user to provide insight on one's financial habits.

Face Detection Based on PCA and SVM, Team member

Northeastern University, Boston, MA

Nov 2016-Dec 2016

- Normalized pixel values of all samples, separated data into training set and validation sets, then, reduced data dimensionality through PCA.
- Trained the SVM classifier with a quadratic programming algorithm and a polynomial kernel function.
- Validated the detector with a scanning window method and non-maximal suppression.

Perceptron-based Branch Prediction, Individual

Northeastern University, Boston, MA

Nov 2016-Dec 2016

- Improved the flow in the instruction pipeline by replacing the pattern history table in two-level predictors with a table of perceptrons.
- Utilized dynamic training algorithms to update weights according to branch history information.
- Evaluated the performance with infinite and fixed hardware budgets respectively.
- Supplemented the branch history with local history records of each branch.

Links

- ➤ GitHub: https://github.com/harveyaya
- ➤ Website: www.harveyaya.com