**Sitian Shen (Lucy)     E-mail: tian909@gmail.com**

**Seeking full-time Software Engineer position starting after Dec 2020       Mobile: (412)298-4893**

**LinkedIn: sitian-shen-cmuece**

**SUMMARY**

As a graduate student majoring in Electrical and Computer Engineering at Carnegie Mellon University with solid programming & analytical background, I’m currently looking for full-time Software Engineer opportunity. Skilled and passionate about: Web Development technology, Data Structure & Algorithms, and Java (especially OOP) etc. Available start date: Dec, 2020.

**WORK EXPERIENCE**

**Software Engineer Intern, Walmart ECommerce (Sunnyvale, CA)  June, 2020 - Aug. 2020**

  worked in Sam’s Club Site Experience and Tools Team as a **back-end** software engineer;

created a monitoring & testing tool in **Node.js** with web tech **React** and **Express**.

* Continuous Synthetic Monitoring of Samsclub.com website with Node libraries Google Lighthouse and Puppeteer;
* Dashboard to monitor the metrics over time with Prometheus and visualized in Grafana;
* Use Docker to dockerize the code for deployment on Azure;
* User Interface by React to manage and trigger tests.

**EDUCATION**

**Carnegie Mellon University   Pittsburgh, PA**

  Master of Science in Electrical and Computer Engineering, GPA: 3.9/4.0               May. 2020

* Courses: Foundations of Computer System (15513), Web Application Development, Java for Application Programmers, Data Structure for Application Programmers, Introduction to Machine Learning for Engineers, Computer Vision, Big Data Analytics

**University of Electronic Science and Technology of China Sichuan, China**

  Bachelor of Engineering in Electronic Science and Technology, GPA: 3.92/4.00           June. 2019

**University of Glasgow (Joint Degree)       Glasgow, UK**

  BEng Electronics and Electrical Engineering (First Honor Degree), GPA: 20.92/22           June. 2019

**SKILLS**

Languages: Advanced knowledges with **Java**; Proficient with **Python, JavaScript, C, Matlab**

Fundamental: Strong Skill with **OOP**; Advanced knowledge with **Data Structure & Algorithms**

Web Tech: Proficient with **Django, Express.js, React.js**; Familiar with HTML5, CSS3, Bootstrap, Ajax

Database: Good understanding with relational database like PostgreSQL, Sqlite3

Other Tools: Version Control with **Git**, CI/CD with **Azure**, **Docker**, monitoring tool with **Prometheus**

**PROJECTS**

**Full Stack Website Development Based on Django Sept. 2019 - Nov. 2019**

  A Chain Restaurant Web Service

* Developed some applications like ordering food for clients, editing employees’ info for managers based on MVC architecture and interacted with UI through jQuery, Ajax, HTTPs based on Django framework;
* Deployed Sqlite3 database system to store and handle huge number of requests from users;
* Use selenium to automatically test the website;
* The code is deployed to Azure via a CI/CD tool.

**Dynamic Storage Allocator (Malloc) Based on C           Nov. 2019**

* Design a **Double Linkedlist** module in C programming language to manage the storage;
* Realize malloc, realloc, free, calloc functions.
* Use explicit and segregated list and best-fit to improve the utilization and throughput.
* Increase utilization to 74% and throughput to over 11K KOPS.

**A Multithreaded Cache Web Proxy Based on C        Dec. 2019**

* Create a proxy that accepts incoming connections, reads and parses **concurrent** requests, forwards requests to web servers, reads the servers responses, and forwards the responses to the corresponding clients.
* Deal with multiple concurrent connections, use a simple main memory cache (with LRU policy) of recently accessed web content.