Hongyu Li

(919) 260-5819 | lihongyu148267448@gmail.com | linkedin.com/in/hongyul

Education

University of North Carolina at Chapel Hill May 2021
B.S. in Computer Science
B.S. in Environmental Sciences, Concentration in Energy Management
Minor in Entrepreneurship
GPA: 3.74

Skills

Technical Languages: Python, Java, JavaScript, Html/CSS, C, C++, Clojure, MATLAB, SQL
Technologies: Git, Pytorch, Pandas, Node.JS, Express, React.js, MongoDB, REST, Docker, Azure, Unity
Foreign Language: Chinese

Work Experience

Technology Analyst (SRE) | Credit Suisse July 2020 – August 2020, July 2021-

- Built scripts to manage server data over 80,000 entries, including matching and updating server data and automate server retirement process, using **Python, Shell** and **Pandas**
- Take on a product management role in the team, help my team build a product management page for our Apache server, communicate with our clients on decommission timeline of our server
- Constructed a web-based modeling application to detect anomalies in trading volume of financial products using **Python, Statsmodel, Plotly, Dash, and HTML/CSS**

Software Engineer Intern | Jitsuin, Inc January 2021 – May 2021

- Built and improved **Python SDK** that allows the use of **REST API** of the main company platform
- Improved the quality of code using tools including **Docker**, **Pypi**, **Pylint**, **Pep8**, and docstrings
- Created new use cases and **APIs**; hosted SDKs and APIs in **Azure** and **Github**;
- Published platform API on **Pypi** for developers to download and utilize
- Researched on competitors of the company and conducted competitive

Research Assistant | Department of Computer Science May 2020 – May 2021

- Created an NLP program detecting sarcasm in languages and improved the accuracy by 10% through machine learning model developing cycle using **Python, Pytorch** and NLP models
- Work on a research project that creates a better dataset for closed-book question answering
- Build a question answering trivia web application to collect question-answer datasets using **Node.js, Express, MongoDB, HTML/CSS**

Projects

Herbarium Map | Software Engineering Lab August 2020 – November 2020

- Worked in a team of three, the client and mentors to develop a web-based interactive map showing the access records of plant specimens at UNC Herbarium using **React.js, MongoDB** and **Node.js**
- Built the interactive user interface using **React.js** and **Mapbox** to display access information
- Secured funding for UNC Herbarium by showing the value of the plant collections through the map

Idiot | Software Architecture January 2020 – May 2020

- Developed a simplified version of Git, "a stupid content tracker" called *Idiot*
- Implemented some basic Git commands using **Clojure**: creating objects, storing them in branches, and displaying contents in a web server
- Practiced software design techniques including testing, debugging, and refactoring

UNC EUI Map | ENEC Capstone August 2019 – December 2019

- Researched and developed methodologies to set target EUIs for all buildings on campus
- Developed a website for UNC EUI (Energy Usage Intensity) map, embedded with Online ArcGIS Data, using **HTML/CSS, ColdFusion, APIs, SQL,** and **Tomcat,** to present campus energy usage conditions and calculate target EUIs through the methodologies developed

Building Competition | UNC Facilities Services August 2019 – December 2019

- Planned, organized, and managed an energy-saving competition between two buildings
- Constructed a website for campus building competitions using **HTML/CSS/JS, Node.JS, Express, Restful,** and **MongoDB** to present data, methodologies and strategies
- Analyzed energy data and other factors of the two buildings, finding a 5% reduction in energy usage