Hongyun Du

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CAREER OBJECTIVE

Seeking a 2021 new grads full-time position as a software engineer.

EDUCATION

Bachelor of Science in Computer Science — Expected Dec 2020

The University of Texas at Dallas, **Richardson, TX, USA** — **Cumulative GPA: 3.6/4**

SKILLS

Programming Languages:	Java, C, C++, C#, Python, MIPS, JavaScript, HTML, CSS, Octave, Node.js, Typescript
Operating Systems:	Windows, Linux – Bash
Databases:	Microsoft Access, Microsoft SQL Server, HSQL, MySQL, DynamoDB, Oracle SQL, PLSQL, PostgreSQL, GraphQL
Other Skills\Technologies:	Google Cloud Platform (GCP), Amazon Web Services (AWS), Spring Boot, Junit5, Angular, Web Application Design, Machine Learning, Git, Unity3D, Postman, NumPy, Pandas, TensorFlow, Keras, React, Docker, Jest, MochaJS, CircleCI

WORKING EXPERIENCE

Center for BrainHealth, Richardson, TX — May 2020 - Present

Full-Stack Web Developer

- Involved in the both front-end and back-end development of web application using **React**, **PostgreSQL**, **Node.js**, **Docker**, and **DBeaver**.
- Implemented **NightWatch.js** to perform end-to-end tests and used **MochaJS**, **CircleCI** to perform validation tests, which increased the testing efficiency by 60%.
- Wrote **GraphQL** to query data from the database and created API for it to allow the front-end layer to access related data.

PERSONAL PROJECTS

Senior Design Project with Tyler Technologies

- Developed a Ticket Solving System from Scratch with the Agile model.
- Used **Node.js** to implement lambda functions under the **RESTful API** architecture and deployed them onto **Amazon Web Services** and **DynamoDB.**
- Used **Angular** with **HTML** and **CSS** to create front end services and hooked up with **API Gateway**, while using **Postman** for testing**,** for the communication between frontend and backend.

Message Posting Website

- Deployed a cloud-based dynamic website on **GCP**, with **HTML** and **Java** - **Spring Boot** while using **Cloud Shell**, which can allow users to post their messages and to subscribe posts, and all message will be stored in **MySQL** database.

Chillennium Game Jam Competition Project

- Designed and implemented a 2D tower defense game based on **Unity3D** with **C#**.

ACADEMIC PROJECTS

Machine Learning Projects

- Used Octave and Python to Implement a linear classification algorithm, a neural network algorithm, and a reinforcement learning algorithm. For the reinforcement learning project, I implemented a deep Q-learning nets to play the game Snake. Familiar with Python libraries such as **NumPy**, **Pandas**, **Keras**, and **TensorFlow**.

Multi-Threading Banking services Simulator

- Implemented multi-threads with semaphore in Java to simulate the banking services on Linux with Java.