GRACE (XIAOBIN) BIAN

https://gracebian1.github.io/

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SUMMARY

A motivated software developer who loves building new things with a strong background on web development and cloud native application. Quick learner with solid problem solving skills.

EDUCATION

Boston University • M.S. in Computer Science • GPA: 4.0/4.0 • Expected Graduation: 2022

University of Massachusetts Amherst • Master's degree • GPA: 4.0/4.0

Nankai University • Bachelor's degree • GPA: 3.5/4.0

TECHNICAL SKILLS

Programming: Java, Python, JavaScript

Web Development: HTML5, CSS, REST, Vue.js, React, Bootstrap, Node.js, SQL/NoSQL, Nginx

Systems/Frameworks/Others: AWS, Docker, Kubernetes, Machine Learning, Git, Linux/Unix

RELATED COURSE WORKS

Data Structures and Algorithms, Advanced Programming Techniques, Web Application Development, Problem Solving with Java, Computer Information Processing, Information Systems Analysis and Design, Information Structures with Python, Data Science with Python

EXPERIENCE AND PROJECTS

Boston Children's Hospital

Fetal-Neonatal Neuroimaging and Developmental Science Center　　　　　　　　May 2020–Sep 2020

Intern

- Built a Docker based plugin to run COVID-Net deep learning neural network application on ChRIS (Children's Research Integration System), a web-based medical image processing platform.
- Built a Docker based plugin to run FastSurfer, a deep learning based neuroimaging pipeline on ChRIS.
- Collaborated with teams from RedHat to integrate the ChRIS plugins into Kubernetes cluster on GENI (Global Environment for Network Innovations) cloud platform.

Interactive Web Application for Location Based Place Searching (Project)

Vue.js, Node.js, Bootstrap, AWS

- Designed, implemented and tested a website that enables users to search for places of interest based on the user input location (address with auto-completion).
- Used Google Places API to search for points of interest, and loaded in an interactive webpage with map view.

Library Information Management Web Service (Project)

Node.js, React, MongoDB, Express.js, AWS

- Designed, implemented, and tested a library information management system that manages over 10,000 books.
- Utilized Node.js, React, Express.js, MongoDB, hosted on AWS using Docker containers.