Zhihong (George) Li

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Education

Bachelor of Arts, Bennington College, Bennington, *VT – June 2021*
Major: Computer Science & Distributed Systems – *GPA: 3.92/4.0*

Relevant Coursework:
Distributed Systems, Programming and Data Structure in C++, Python for Data Science and Machine Learning, Collaborative Software Engineering

Experience

IT Specialist – Bennington College, VT, *January 2020 – February 2020*
• Assisted with a range of first-tier support issues, from basic troubleshooting of personal devices to printers to password resets
• Assisted installing new internet switches for 9 student buildings, upgraded students' internet experience

Web Developer Intern – Dandelion School, Beijing, China, *August 2018 – August 2018*
• Developed a more secure and user-friendly website with WordPress for viewers to easily learn more about the school
• Transferred all the data from an outdated website to the new website ensuring that all information accessible

Projects

SoundCloud/Spotify Full Stack – [Restful API, MongoDB, GridFS] – Bennington College, VT, *July 2020*
• Created a fullstack audio streaming web application, allowing users to stream, upload and delete audio files
• Implemented the backend with Python, Flask, MongoDB and GridFS to store/retrieve user information and audio files
• Developed Restful API for audio streaming, login/logout (authentification) and changing user information

Google File System (GFS) – [Distributed Systems, Backend, Microservices] – Bennington College, VT, *May 2020*
• Designed data structures to effectively manage and retrieve file metadata
• Created Restful API on master-server for client and chunk-servers to do file operations based on metadata
• Built Docker Image and container for services and successfully deployed GFS on AWS EC2 for Demo

Ping and Traceroute (Terminal Interface) Tool – [Raw Socket/IP] – Bennington College, VT, *April 2020*
• Designed a (Terminal Interface) tool for users to ping an IP address and return response time, packet loss
• Enabled the tool to traceroute an IP address and return all the IP addresses the packet has to go through to reach destination

Multi-Client Terminal Chat App – [TCP/IP, Multi-threading, Backend] – Bennington College, VT, *Spring 2020*
• Implemented TCP/IP sockets for clients to send and receive messages to multiple
• Incorporated multithreading to enable clients to receive and send messages at the same time

Heart Disease ML Prediction Model – [Pandas, TensorFlow, MatPlotlib] – Bennington College, VT, *Spring 2020*
• Analyzed the heart disease data using Pandas and Seaborn to provide researchers a quality data visualization
• Created various machine learning models with Scikit-Learn and TensorFlow to find the best prediction model
• Engineered a python automation algorithm to evaluate a potential ML model ten times to calculate the average model precision

Technical Skills

Software and Programming Languages:

- **Proficient:** Python, Flask (Restful API), Docker/Microservices, Git, R, Bootstrap, HTML/CSS
- **Experienced:** AWS, C/C++, C#, JavaScript, Swift, TensorFlow, Jinja, jQuery, Clojure, ARM Assembly

Databases: PostgreSQL, MongoDB, SQL
Network Protocols: TCP/UDP & Socket, DNS, NTP, HTTP

Certifications and Achievements

AWS Certified Cloud Practitioner, UWC Davis Scholar, IB Bilingual Diploma,
Above Average Achievement on American National German Exam (AATG)

Languages

English (Proficient), Mandarin (Native Speaker), German (Elementary Level)