Boyu Li

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Education

Year	Degree	Institute	GPA/Marks
Sep, 2021 - Now	Master's of Engineering in Computer Engineering	Texas A&M University	3.90/4.00
Sep, 2017 - Jun, 2021	Bachelor's of Engineer in Mechanical Engineering	Tongji University	4.42/5.00

Technology & Programming Language

- **Programming Language:** Python, C, C#, C++, Matlab, Structured Text, Assembly Language,Javascript, HTML, CSS, Typescript, Java, SQL
- **Frameworks:** Pytorch, React, Docker, VMware, ReactNative.js, AWS, Firebase, Angular.js, Node.js,Redux, Express.js, .NET, MongoDB, SpringBoot
- **Databases & Tools & Ability:** Microsoft SQL Server, Microsoft Visual Studio, Jupyter Notebook, VScode, Linux, Mocha, Chai, Machine Learning, Deep Learning

Working Experience

Year	Position	Company	Location
May, 2022 - Aug, 2022	Software Engineer Internship	Arbin Instrument	College Station, TX

• Developed pipeline that generated product parameter by establishing .Net WinForm application.
• Implemented C# .Net application to access, write data in Microsoft SQL Server.
• Developed Web Application to display product form by implementing JavaScript in React.
• Containerized the above applications in Docker and realized Agile methodology in the whole development.

PROJECTS

- **Blog Management Application| Group Project** May 2023 – Aug 2023
  •Built a Blog management Application with MongoDB Atlas, Express.js, Angualr.js, Node,js, Firebase,js..
  • Implemented user sign up with Firebase Auth Api.
  • Conducted unit tests using Mocha and Chai for ensuring performance.
  • Github Link:**https://github.com/zdong2080/BlogManagement**
- **Multi-Layer Perceptron Neural Network Implementation | Personal Project** Dec 2022 – Dec 2022
  • Created an MLP class with methods for loading, saving, and updating weights, and predicting.
  • Implemented MLP features: computed sigmoid activations and derivatives for hidden and output layers.
  • Managed weight settings using file operations.
- **Ping| Group Project** Jan 2022 – May 2022
  •Developed Ping app on mobile phone by implementing JavaScript on ReactNative with Expo.
  • Established the backend part based on with Firebase to store, access, modify user information.
  • Release app based on Expo Release.
  • Github Link:**https://github.com/CSCE-606/MobileFrontend**
- **10-Class Image Classification based on Resnet | Course Project** Sep 2021 – Nov 2021
  • Adapted Resnet and implemented in Python with CIFAR-10 DATASET.
  • Implemented the advanced Resnet method to train the classifier under pytorch Frame.
  • Visualized the classification result with Matplotlib and Seaborn.
- **TCP Server | Course Project, Team Leader** Sep 2021 – Dec 2021
  • Built the virtual Linux environment for project based on VMware Player.
  • Built the socket as the server side using C++, which can accept communication request, show response from client side.
  • Applied TFTP and UDP for document exchange from client side to server side.
- **Design of Student Performance Management System | Course Project** Nov 2018 – Jul 2019
  • Designed class containing student information, student performance, and method to create, read, update, and delete instance in C++.
  • developed a menu system that facilitates interaction with above Methods.