

## Boyu Li

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### Education

Year	Degree	Institute	GPA/Marks
Sep, 2021 - Now	Master of engineering in Computer engineering	Texas A&M University	3.90/4.00
Sep, 2017 - Jun, 2021	Bachelor 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, SQL
- **Frameworks:** Pytorch, React, Docker, VMware, ReactNative.js, AWS, Firebase, Angular.js, Node.js, Redux, Express.js, .NET
- **Databases & Tools:** Microsoft SQL Server, Microsoft Visual Studio, Jupyter Notebook, VScode, Linux, Mocha, Chai

### 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.
- Implemented Unit Test using C# and Containerized the above applications in Docker.
- 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, Angular.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>
- **Ping | Group Project** Jan 2022 – May 2022
  - Developed Emergency Notification Application on mobile phone by implementing JavaScript on React-Native 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.
  - Simulated the data flow and visualized the communication process based on TCP using NS-2 Simulator.
  - Built protection mechanism for both server side and client side by applying Timeout Mechanism.
- **Robot Motion Planning and design of its embedded system | Graduation Project** Nov 2020 – Jul 2021
  - Applied the Task-Priority Planning Strategy to plan motion of robot using Simulink Framework.
  - Designed the motion control programming in embedded system with C under Keil 16.
  - Communicated the embedded system and Robot by implementing RS-485 Protocol.