QUANWEI HAO

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Boston, MA

PROJECTS

Smart Brain

Face Recognition Web App. (Full-Stack) Skills involved: Javascript, React, HTML5/CSS3, Tachyons, Node.js, Express, Knex/PostgreSQL, Clarifai API.

- Create reusable components that are scalable and easily maintained of front end website using React.
- Used **Tachyon**s to set styles and connected them together in App container.
- Fatched Clarifai API to recognize faces on given image.
- Build backend server using express with 10 request controllers and connected to PostgreSQL database.

PostZone

1 09/2019 - 12/2019 Boston, MA

A twitter-like social media, users can post posts, follow other users, search posts and chat with others. (Full-Stack) Skills involved: OOD, Javascript, Express, Session, Axios, Socket, Mongoose, Dompurify, HTML/CSS, JWT, CORS.

- Based on OOD, create models and controllers for each domain object.
- Used **session** to give users authentication to operate their posts.
- Used axios to post HTTP requests from front end to server, and used socket.io to establish chat between users.
- Created API using JWT and CORS.

EXPERIENCE

Software Engineer Intern

Atantares Corp.

1 01/2019 - 08/2019

Atantares is intended to build low cost, high precision, and miniaturized clinical diagnostic equipments.

Skills involved: MATLAB, PyQt, multiprocessing, serial, Arduino.

- Was responsible for the phase II R&D of a modular coagulation detection system, made it 10 times smaller and got 0.1 seconds precision, help company financing \$100k.
- · Designed user interface using PyQt.
- · Got crystal vibration frequency from Arduino using serial and updated data asynchronously using multiprocessing.

Robotic Engineer

Al Lab of Tsinghua University

Al Lab is intended to build Automatic Car. Skills involved: PID control, ROS, SLAM.

- · Helped lab to get ¥1M financing. Dramatically decreased errors of running speed down to ±1cm and turning angle down to ±1 degree.
- Used ROS to build system, and SLAM to do navigation.

SKILLS

Programming languages

Java **JavaScript** Python C++

Platforms & Frameworks

React Node Mongo Git ROS **Express PostgreSql** MvSal

ACHIEVEMENTS



Participant in "Internet +" University Student Innovation and **Entrepreneurship Competition**

Our project was 'Remote control insertion surgery robotic platform'. Won the first prize of this competition.



Participant in China Undergraduate **Mathematical Contest in Modeling**

The prediction accuracy of our model was 99%. Won the first prize.

EDUCATION

Master in Electrical and Computer Engineering

GPA 3.9 / 4.0

Northeastern University

2018 - Ongoing

Boston, MA

- · Research Assistant in Cognitive Systems Lab.
- Teaching Assistant of machine learning.

Bachelor of Engineering

Beijing University of Posts and Telecommunication