Tianshuang Fu

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EDUCATION

University of Pennsylvania, *Philadelphia, PA*   Expected May 2021

Master of Computer and Information Technology (MCIT) & Systems Engineering (MSE)

- Current GPA: 3.9/4.0
- Major Courses: Statistics for Data Science, Database & Info Systems, Web Development, Computer Systems, Optimization & Simulation, Engineering Economics, Macroeconomics…

Xi'an Jiaotong University, *Xi'an, Shaanxi, China*   Jun 2018

Bachelor of Engineering, Automation

- Cumulative GPA: 3.4/4.0   Award: XJTU Siyuan Scholarship
- Major Courses: Data Structures and Algorithms, Computer Networks, Data Mining, Introduction to AI…

SKILLS

- Programming in Java, Python, JavaScript. Database knowledge like SQL, MySQL and MongoDB.
- Web development: HTML, CSS, jQuery, NodeJS, TypeScript & Angular, Ruby on Rails…
- Also familiar with: C/C++, MATLAB, Networks…

INTERNSHIP

Software Development Intern, *Cloud & AI Service - Huawei Technologies*   Jun 2019-Sep 2019

- Worked on implementing Huawei cloud testing services website. Completed page UCD design, front-end and REST API development for push-notification, user role management, project workspace using typescript and Angular 2/7 framework. Practiced both NodeJS and Tomcat as server side, Postman and SwaggerUI for API tests.

IoT Project Management Assistant, *Changhong Electrics*   Jul 2017-Sep 2017

- Practiced smart-home products development and project management. Participated in testing process of specific function modules (voice/gesture recognition) of new consumer products at Meiling Institute of Intelligent Technology.

Publicity and Technology Officer, *Shen & Yang Book Association*   Jul 2015-Jul 2017

- Designed and developed multimedia publicity platforms for our club. Assisted in updating and O&M of online information system for membership and book management.

PROJECTS

Gaze Estimation Algorithm and Optimization, *Institute of Artificial Intelligence and Robotics, XJTU*

- Implemented reliable appearance-based human eye gaze estimation algorithm by introducing correntropy (a similarity measurement) method. Practiced several ways of image processing, feature extracting and computer vision learning. Also simplified this algorithm and improved its accuracy by 10% using MATLAB.

Smart Robots and Embedded Systems Application, *XJTU Information-technology Talent Program*

- Implemented control systems for smart race car (Freescale model) based on PID and Fuzzy Logic Control Theory. Realized speed adjustment, race tracking and obstacle avoidance functions.

Web Application Development: MEAN Stack, *CIS Department of University of Pennsylvania*

- Design and Developed a web application for incoming college students, including university admission news and major ranking / housing / tuition information search. Tried out Bing Image Search and Facebook/Google login auth APIs. Connected several large databases to our webpage using AWS mySQL services.