Zhi Shen Yong

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Coursework:

Data Structures & Algorithms,
Advanced Algorithms,
Object-Oriented Programming,
Full-Stack Web Development,
Formal Languages & Automata,
Video Game Development,
Machine Learning,
Internet of Things,
Technical Writing,
Linear Algebra,
Probability & Statistics

Languages:

Proficient:
Java, JavaScript, C++, HTML5, CSS

Familiar:
Python, PHP, SQL, MATLAB, C#

Libraries/Frameworks:

jQuery, Node.js, React, Angular, React Native, Bootstrap, Socket.IO, Ionic

Software:

Android Studio, Microsoft Suite, AWS, Heroku, Unity, Apache Cordova

Links:

https://github.com/zhish3n
https://zhish3n.github.io/

Awards:

Dean's List: 2016 – 2018
Robert N. Varney Prize

Education:

Washington University in St. Louis
B.S. in Computer Science | GPA: 3.92/4.00
Expected May 2020

Experience:

Software Developer Intern
Xchanging, Kuala Lumpur, Malaysia | June 2018 – August 2018

- Developed a hybrid mobile app using React Native, Java, and Objective-C to capture and assess user speaking ability based on phonetic criteria.
- Performed several rounds of multivariate testing to modify app features, decrease resource use, and improve app stability.
- Integrated the finished mobile app into the company's educational platform; academic courses using the platform aimed at improving spoken English can use the mobile app to train and test students' pronunciation.

Projects:

Matchery | *November 2018*
(https://github.com/ZhiSh3n/matchery)

- Developed a web application using React, Node.js, MongoDB, and Python that matches applicants with groups based on a two-sided deferred acceptance algorithm.
- Provides general audition events with a method to optimally match applicants to groups while saving time by avoiding matching conflicts and group disputes.

Remote Environment Monitoring System | *April 2018*
(https://zhish3n.github.io/rems)

- Developed a set of solar-powered microprocessors using C++ to routinely collect environmental data and to broadcast the data over LoRaWAN to be displayed in a web application built using HTML, CSS, and JavaScript.
- Allows users to conveniently monitor the long-term temperature, humidity, and ambient light of multiple locations in a 10-mile radius while also allowing users to save maintenance costs as data-collectors are fully self-sustaining.

Chat Room Web Application | *November 2017*
(https://github.com/ZhiSh3n/nodesocket_chatter)

- Developed a real-time, bi-directional communication platform using HTML, CSS, Node.js, and Socket.IO.
- Allows users to create and join public chat-rooms as well as password-secure private chat-rooms.

Stern-Gerlach Experiment Calculator | *June 2017*
(https://github.com/ZhiSh3n/sgdevice)

- Developed a console application using Java to calculate the probabilistic outcomes of a particle after passing through a series of Stern-Gerlach devices.