Yuxiang(Shawn) Chen

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PROFILE

Strong in design and integration problem-solving skills. Proficient in Java, Python, Javascript.

Skilled in front-end developing (Web & IOS), machine learning, and data science.

Highly adaptable in quickly changing technical environments with very strong organizational and analytical skills

EDUCATION

University at Buffalo, The State University of New York   Feb 2017

    Master of Science in Mechanical Engineering (GPA: 3.7/4.0)

    Coursework: Web development, Machine Learning, Data Science

Tianjin Polytechnic University, Tianjin, China   Jun 2015

    Bachelor of Building Environment & Equipment Engineering (GPA: 3.3/4.0)

SKILLS

Programming: Java, Python, C++, C#, Swift, Matlab, HTML, CSS, JavaScript, PHP, SQL, NoSQL, Shell/Bash

Techniques: Jquery.js, React.js, Redux.js, Node.js, Bootstrap, RESTful, AJAX, OpenGL, ROS, Git

WORKING EXPERIENCE

Graduate Research Assistant, Human in the Loop System Laboratory, University at Buffalo   Jun 2016 - Feb 2017

Research: Multimodal Recording for Activities Recognition

- Design and implement gesture recognition and gait recognition application with the variety of wearable sensors.

- Writing the program using C# with API of xio-IMU and Stretch Sensor to automatically extract movement, acceleration, orientation and reaction force data of the object.

- Optimize and combine the program of the different sensor into one application, and synchronize the data collection.

- Rendering 3D models with OpenGL to visualize activities recognition results in real-time

- Use template matching recognition algorithm with more than 100 training data for each template, the average classification accuracy is more than 93%

PROJECT

Signature Sign in System, UB Hacking, University at Buffalo   Nov 2016

- Use signature as verification to login personal account, implemented by Java

- Achievements: Best healthcare hack, 2016 UB Hacking Competition, University at Buffalo

- Utilize Java Swing toolkit to design front end user interface

- Implement feature-based classification algorithm to recognize the login signature compare with the user account database with 91% accuracy

iOS Application of Local Life Service, University at Buffalo   Sept 2016 – Jan 2017

- For the local people to publish or search about life information and seek help (used item, carpool, etc.)

- Use Swift 3 to write responsive application for all devices with different screen size

- Coding programmatically instead of storyboard, refactor UI components to make the code cleaner and more robust

- Created many dynamic views and graphical elements to make app more interactive to the user

Web Design of Life Service Website, University at Buffalo   May 2016 – Oct 2016

- Design and code up website by using HTML5, CSS3, JavaScript, JQuery, React.js

- Implement responsive web page, optimize for mobile and tablet platforms

- Troubleshooting and optimize source code to increase speed and scalability