Wan-Ting Chang

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Objective

A full-time employment opportunity in **Front-end Engineering**, **Software Engineering**, or **User Experience** related fields.

Skills and Techniques

(Ordered by proficiency)

- Specialties: Website design, development, and implementation, Cross-browser compatibility, Responsive Web Design, User Experience Research, Kinect Applications.
- Programming Languages: JavaScript, HTML5, C/C++, C#, ASP.NET, Java, jsp, AJAX, SQL
- Libraries: jQuery, Angular.js, Three.js Node.js, Bootstrap, openFrameworks, WordPress, WebGL, OpenGL
- Development Tools/IDE: Sublime Text 2, Xcode, Microsoft Visual Studio, Eclipse, Subversion, Git, Gulp, Grunt
- Databases: MySQL, Microsoft SQL Server, Microsoft Access, CouchDB, MongoDB, Oracle 9i
- OS/Servers: Mac OS X, Mac OS X Server, Windows Server, Windows IIS, Apache Tomcat, Express
- Graphic Design Tools: Adobe Illustrator, Adobe Photoshop, Adobe InDesign
- Languages: English, Mandarin, Japanese

Work Experience

Floored, Inc. **New York, NY** **1.2014 – Present**

Software Engineer

- Researched a solution for web browsers that do not support WebGL or computers that do not have strong graphic cards to load our 3D interactive contents. The outcome of it is to develop a lite version of our current 3D engine, which has similar functions such as floor plan navigation and stair buttons for user to navigate through different floors. It is similar to Google Street View where users can still explore the 3D models using the moderate computers or any kind of browsers. It is suitable and seamless across different browsers from **Windows IE8 to Google Chrome**, and it was written in **pure, low-level JavaScript and html**. Demo: http://depot.floored.com/scenes/North-Forest-Pilot-Suite-201/numa
- Help modify, add, and improve features to the production site using **jQuery, RequireJS, NodeJS**. For example, implement different UI upon clients' requests, change the floor plan when navigating to different floors, implement colliders or bounding boxes for certain models, and navigate to different spots in the model with one click or press the space bar.
  Demo: http://labs.floored.com/clients/g-holdings/214-west-39/
- Built a website that demonstrates each units' information within a building and calculate the total space sqft of the selected units using **html5, WebGL, ThreeJS, AngularJS, and gulp** (Node.js). The users can modify the units' information using a specific Google Spreadsheet that we provide. The website can be found here: http://labs.floored.com/terminal-stores/
- Collaborate with 10 modelers and the business team to come up with the suitable products for our clients.
- Utilize **Kinect**'s gesture recognition and send out keyboard commands based on the body movement to move the viewer position within a 3D scene.

NextFab Studio **Philadelphia, PA** **6.2011 – 7.2012**

Creative Developer

- Developed a solution for the company to integrate various systems such as QuickBooks and Mac OS X SERVE to allow for a more efficient and user-friendly CRM system for the members.
- Used Microsoft **Kinect sensor** and RepRap's Prusa Mendel **3D printer** to scan and print objects in 3D format and showcased at the NextFab Preview Party in April 2012.
- Designed and developed an **interactive** window display to attract and engage pedestrians using openFrameworks (C++) with Code::Blocks and Xcode that allows the application to **work on both Windows and Mac OSX**. A video recording for this project: vimeo.com/51551387

ProFlag Tech. Co., Ltd. **Taichung, Taiwan** **8.2008 – 7.2009**

Software Engineer

- Developed software that related to RFID applications such as RFID Student ID Card Management System, Diploma Management System using Visual Studio 2008 C# .NET and Microsoft SQL Server.
- Created 5 different types of content management systems that fit the clients' needs from the scratch of creating requirement document to the stage of employing the software using jsp, JAVA and MySQL. The clients ranged from retailers to farmers. The outcome included online shopping website and agriculture traceability system.
- Developed an RFID-based system that involved an AWID RFID reader and a Windows application for teachers to track individual student attendance using Visual Studio 2008 C# .NET and Microsoft Access so that the software was portable for the instructor to bring to any computers in different classrooms.
- Developed a web based CMS for municipal tracking of foreign workers using MVC model with jsp, JAVA and Oracle 9i. The project was partnered with the Bureau of Labor Affairs of Taichung City Government to ensure that the solution completely addressed all 8 types of data crucial to their efforts which resulted in a robust user experience, giving the client access to 20 different functions in one online tool.
- Collaborated with a variety of customers to help solve any system difficulties that arose.

Industrial Tech. Research Inst. **Hsinchu, Taiwan** **1.2007 – 9.2007**

Software Engineering Intern

- Developed solutions following the standard of the Open Mobile Alliance – Enabler Test Specification for Multimedia Message Service.
- Used TTCN3 language to write software for testing cell phone capabilities.
- Implemented the testing program utilizing the software and documented the test results.

Education

Stevens Institute of Technology **Hoboken, NJ** **5.2014**

- *Master of Science in Multimedia Experience and Management*
- *Courses: Software Architecture, Human-Computer Interaction, Interactive Computer Graphics, Computer Vision, Real-time Rendering*
- *GPA: 3.84*

Yuan Ze University **Taoyuan, Taiwan** **6.2008**

- *Bachelor of Science in Computer Science and Engineering*

Projects

Kinect Hack: virDrobe **9.2013 – 12.2013**

- Used the open source framework, openFrameworks and C++ to develop a user-friendly and intuitive application for users to store their clothes' information.
- The application has 2 main functions: Scan and Fit.
- Scan: it scans the image that is within a certain distance. Users can define the distances by themselves. They can simply hold the clothes in front of Kinect's camera and scan it. They can operate this function using hand gestures with Kinect.
- Fit: users can try the clothes on by retrieving the data from the software with hand gestures interacted with Kinect. The software will detect the face of the user and draw the clothes the user selects accordingly.
- Once the user stays on any button for more than 1 second, it triggers a click, and the application will give a click sound to indicate the user that the action is completed. It will give the user a feedback to know the operation has been done.
- Video demonstration: vimeo.com/83082921