SIMON C. WONG

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### SUMMARY

**Lead UI/Front-End Developer and UX Designer** with over 20 years of experience working for financial service institutions and technology firms. Strong technical knowledge and experience in RIA and mobile development using HTML5, CSS3, and JavaScript on UNIX and Windows platforms.   Strong GUI design skills based on UCD approach with focus in delivering innovative designs via rapid prototyping and/or wireframes/treatments. Knowledge of popular graphics/IA tools such as Visio, Adobe Photoshop, and Illustrator.  Expert in financial applications for Risk, Market Data, and Research.  Experienced Team Lead with excellent managerial/communication skills and successful track record collaborating with internal and external clients.

### SKILLS

**Business:** Market Risk Management (Max Losses, VaR), Market Data, Market Research, Equities, Capital Markets, Quantitative Analysis, Web Portal, Reporting, Deals, Alerts.

**Design:** RIA, Rapid Prototyping, Information Architecture, Adobe Dreamweaver, InDesign, Photoshop, and Illustrator, Fractal Design Painter, Fireworks, Visio.

**Development:** HTML5, CSS3, SASS/Less, JavaScript (ES6, ES7), React, Vue, Angular, Angular 8, RxJS, NgRx, AngularJS 1, React Native, Redux, Knockout, Backbone, Bootstrap, Material UI, Styled Components, TypeScript, Flow, DOJO, ExtJS, Node, jQuery UI, D3, C3, Highcharts, Chartist, Next, AJAX, Websockets, Server-Sent Events, REST, GraphQL, JSON, XML, C-Shell, K-Shell, Perl/CGI, PHP, SQL Stored Procedures, PL/SQL, Open Source, Mongoose, MongoDB, MEAN Stack, MySQL, AWS, Elasticsearch, Cloud Computing.

**Testing:** TDD, Unit Testing, Integration Testing, e2e Testing, Karma, Jasmine, Jest, Mocha, Chai, Sinon, Selenium, TestCafe, Cypress.

**Accessibility:** WCAG, ARC Toolkit.

**Other:** Oracle, Sybase, Windows NT/XP/Vista/7, Unix, Weblogic Web Server/Workshop, IntelliJ IDEA, Visual Studio, Microsoft IIS, Apache Server, Microsoft Office, GitHub, SVN, WinCVS, SharePoint, Starteam, Clearcase, Subversion, Test Director, AccuRev, Micromuse Webtop, Web Universal, Webpack, Grunt, GULP, Babel, Agile, Sprint, Scrum, Jira.

**EXPERIENCE**

***UI/UX Architect*, PNC Bank, 3/2020 – Present**

• Designed UI via rapid-prototyping in React for company’s teams organization application to manage user roles and teams within the company.

• Developed UI using React, Redux, PostCSS, and Material UI.

• Ensured WCAG 2.1 accessibility compliance via ARC Toolkit.

• Optimized application using React, JavaScript, and development best practices.

• Maintained Angular apps using Angular 10 and NgRx 10.

• Automated application testing via Jest, Enzyme, and Cypress.

• Developed backend using Express, Node, and GraphQL.

***UI Architect*, UBS, 8/2019 – 2/2020**

• Developed UI for company’s premier research application using React, D3, Material UI, Next, Styled Components, and Redux.

• Developed mobile version of app using React Native.

• Optimized application using React, JavaScript, and programming best practices.

• Maintained Angular apps using Angular 8 and NgRx 8.

• Tested application using Jest, Enzyme, and Cypress.

• Developed real-time backend using Express, Node, and GraphQL.

***Sr UI Developer*, EY, 4/2018 – 7/2019**

• Developed new UI for company’s flagship tax application using React, D3, Material UI, and Redux.

• Developed mobile version of app using React Native.

• Integrated UI with AWS, Elasticsearch, and other cloud computing solutions.

• Optimized application using React, JavaScript, and programming best practices.

• Maintained Angular apps using Angular 8 and NgRx 8.

• Tested application using Jest.

• Developed real-time backend using Express, Node, and GraphQL.

***Lead UX/UI Architect*, Third Point, 5/2017 - 3/2018**

• Designed/developed new UI for company’s flagship equities dashboard via fully functional rapid-prototyping using React, Redux, HTML5, Chartist charts, Highcharts, D3, and GraphQL. This application contains complex custom grid components as well as many charting features.

• Optimized old dashboard and reduced its original build size to less than a quarter of original size.

• Designed/developed UI for mobile version of dashboard using React Native.

• Designed UI for new web portfolio management system of mainly equities and bonds via rapid-prototyping using Angular 7 and NgRx.

• Developed UI for new web portfolio management system using React and Redux.

• Designed and developed UI for various financial apps using AWS and Elasticsearch.

• Developed real-time backend using Express and server-sent events in Node.

• Tested all applications based on TDD best practices using Jest. Performed e2e tests using Selenium, Cypress, and TestCafe.

***Lead UX/UI Architect*, BNY Mellon, 7/2016 – 4/2017**

• Designed UI for company’s flagship treasury system via fully functional rapid-prototyping using Angular 2, TypeScript, React, Redux, Bootstrap, HTML5, and D3js. This application contains complex custom UI components as well as many charting features. The original app was built using Angular 1 and was rebuilt using React for better performance and maintenance (Single Redux store and flux pattern).

• Developed mini-dashboard of above app in React Native and Redux.

• Developed UI for web version using Angular 2, TypeScript, React, Redux, SASS/CSS3, HTML5, D3js, Mongoose, MongoDB.

• Developed real-time backend using Express, Websockets, and Socket.IO modules in Node.

• Designed and developed UI for company’s alerting app using Vue, Vue Router, Vuex, Mongoose, MongoDB, and Node.

• Designed and developed client account pages for Private Banking Group using Angular 4, TypeScript, Redux, Relay, and GraphQL.

• Tested all applications based on TDD best practices using Jest. Performed e2e tests using Selenium, Cypress, and TestCafe.

***UI Architect*, JP Morgan Chase, 1/2016 – 6/2016**

• Developed UI for company’s flagship real asset system using Angular 1/2, TypeScript, React, Redux, SASS/CSS3, HTML5, jQuery, and D3js. This application contains entirely of highly complex custom components designed by UX team as well as many charting features.

• Developed UI for company’s equities funds app using React, Redux, SASS/CSS3, HTML5, and D3js/C3. The funds app contains contains an interactive dashboard of many unique and complex charts. Using React and Redux helped streamline the data and dom to deliver a high performance experience.

• Designed and developed fund admin app using Vue, Vue Router, and Vuex.

• Developed real-time backend using Express and Websockets in Node.

• Advised UX team on best practices and design ideas for existing and new features in the applications.

• Tested all applications based on TDD best practices using Jasmine, Jest, and Karma.

***UI Lead*, Morgan Stanley, 5/2013 – 12/2015**

• Designed and developed company’s flagship portfolio management system of equity and other assets using AngularJS, React, SASS/CSS3, HTML5, jQuery, D3js, and NodeJS.

• Developed new V2 portal which is the web version of Morgan Stanley’s flagship V1 standalone portal which houses key applications for Financial Analysts using AngularJS, ExtJS, HTML5, SASS/CSS3, Bootstrap, and jQuery. Created custom modules and directives to be used throughout the application.

• Implemented all visual design elements using CSS3 and HTML5 Canvas.

• Integrated existing Financials applications with new V2 Portal using AngularJS.

• Proposed best practices for AngularJS and UI development to improve performance of new V2 portal. AngularJS being a dirty framework can easily be abused without a key understanding on its underworking. By reducing the number of watches, performing watches more efficiently and reducing the number of client-side includes and/or other features that require additional asynchronous requests, a more responsive and efficient UI was achieved.

• Proposed new IA designs to improve current V1 Portal approach via prototypes done in AngularJS, ExtJS, HTML5, CSS3, jQuery, D3js, Mongoose, MongoDB, and Photoshop. These designs include new ideas in navigation and data visualization.

• Performed unit tests for all applications following TDD best practices using Jasmine and Karma.

• Performed e2e tests for all applications using Selenium.

***UI Lead*, Standard and Poors, 1/2012 – 5/2013**

• Led and selectively formed a UI dream team.

• Designed IA via user-centric approach and UI architecture leveraging ExtJS MVC framework.

• Developed S&P's flagship RIA/mobile report generation, collaboration, and process management application using ExtJS, HTML5, CSS3, JavaScript, and MongoDB for S&P Ratings analysts.

• Developed real-time alerting back-end using Socket.IO module with NodeJS.

• Provided mentorship to junior members of team in solving difficult solutions.

• Streamlined old code for better efficiency and maintainability.

• Integrated company's legacy report generation application w/new application using ExtJS, HTML, JavaScript, and Java.

***Web UI Lead*, Axa-Equitable, 6/2010 – 12/2011**

• Analyzed, designed, and proposed new ideas in data visualization via rapid prototypes, wireframes, and/or treatments based on UCD approach and Web 2.0 concepts using various technologies such as HTML5, CSS3, JavaScript (jQuery), Flex/ActionScript, Swing, PHP, Visio, and Fireworks to Sr mgmt and clients.

• Implemented their retirement accounts site using XHTML, CSS, JavaScript, AJAX, and Flex/AS.

• Integrated front-end with Java middle tier.

***Web UI Lead*, Thomson Reuters, 5/2006 – 5/2010**

• Managed and coordinated projects for Investment Banking segment of User Experience Group.

• Analyzed, designed, and proposed new ideas in data visualization via rapid prototypes, wireframes, and/or treatments based on UCD approach and Web 2.0 concepts using various technologies such as HTML5, CSS3, JavaScript (Prototype, DOJO, Ext, jQuery), Flex/ActionScript, Swing, PHP, Visio, SharePoint, and Fireworks to Sr mgmt and clients.

• Conducted surveys and usability tests with clients to verify UI concepts.

• Implemented RIA UIs using HTML5, CSS3, JavaScript, AJAX, Flex/AS, and Adobe AIR.

• Integrated RIA front-end with C# .Net and Java mid-tier.

• Designed and rewrote company’s global CSS using liquid CSS-based design.

• Created graphics using Adobe Illustrator and Photoshop.

***Web UI Lead*, Bank of America, 11/2004 – 4/2006**

• Devised detailed project plans specifying each phase of project cycle and its release date.

• Incorporated corporate standards and enhanced usability of third-party reporting application, MicroStrategy Web Universal – a RIA reporting tool, using XHTML, JavaScript, JSP, Java, XML, AJAX, Flex/ActionScript, and CSS. Integrated application into Vignette global portal running on Weblogic Server with Oracle database on Unix Platform.

• Created graphics using Adobe Illustrator and Photoshop.

• Coordinated with internal clients in delivering customized third-party reporting application to suit each client’s specific needs.

• Coordinated with vendor for third-party application upgrades.

• Hosted daily meetings with internal clients to discuss outstanding software issues during QA phase.

***Senior Web UX Consultant*, Marsh Inc., 1/2004 – 10/2004**

• Conducted meetings with users and senior managers to obtain specifications and discuss ideas for application redesign.

• Designed, prototyped, and integrated front-end of information repository application with third-party back-end using Visio, Fireworks, XHTML, JavaScript, XML, CSS, Flash/ActionScript, and Livelink running on MS IIS Web Server with Oracle database.

• Created graphics using Adobe Illustrator and Photoshop.

• Conducted presentations for users and senior managers.

***Senior Web UX Consultant,* Sita, 1/2003 – 12/2003**

• Designed, coded, and tested the operations group's centerpiece web-based application that enable its personnel to troubleshoot and monitor the status of hardware components belonging to ninety percent of the world's airports and other facilities around the world. Developed application in HTML, JavaScript, and Java Applets (Swing) using Micromuse's Webtop Application Server with Oracle Database on NT Platform.

• Created and enhanced images using Adobe Photoshop.

• Presented finished product to senior managers.

***Senior Web UX Specialist*, Merrill Lynch, 1/2001 – 12/2002**

• Conducted meetings with users including risk managers and traders to obtain specifications and discuss ideas for new prototype designs.

• Designed and prototyped the look and feel of all web-based applications including VaR-related risk applications for Market Risk Management Department using Java, Swing, XHTML, JavaScript, Adobe Illustrator, and Photoshop based on specifications agreed upon. A centerpiece prototype was a custom web-based risk measurement report enabling users to view and customize the report, and e-mail it to clients.

• Conducted presentations for users and technical managers.

• Integrated Java Beans and Servlets with HTML pages using JSP and XML for web-based risk-related applications involving customer-specific business logic changes running on Apache Web Server with Sybase and Oracle databases on Unix Platform.

• Designed and maintained Risk Management Intranet site using Java, XHTML, JavaScript, Photoshop, and WinCVS running on Apache Web Server.

***Senior Web UX Engineer*, 2Bridge Inc., 4/2000 – 12/2000**

• Conducted meetings with users to obtain specifications and discuss ideas for new prototype designs.

• Designed, prototyped, and coded administrative portion of interactive web-based financial research application using Weblogic EJBs, Servlets using JDBC, JSPs, XML, and Oracle stored procedures (PL/SQL) running on Weblogic Web Server.

• Designed and prototyped the look and feel of entire application using HTML, DHTML, Java, Swing, and Adobe Illustrator and Photoshop.

***Web UI Developer*, Blue Dingo/GB, 11/1999 – 3/2000**

• Coded and Re-designed web sites for major clients such as MCI, Benjamin Moore, and Chef Boyardee using JavaScript, DHTML, and Active Server Pages/VB Script on NT and Unix platforms with MS SQL Server on NT platform.

• Designed, prototyped, and coded internal web-based files tracking system using ASP/VB Script, DHTML, and MS Access running on MS IIS Web Server.

• Developed back-end of e-commerce site using Perl/CGI and PGP RSA encryption scheme.

***Web UI Developer*, PaineWebber Inc., 9/1997 – 10/1999**

• Conducted meetings with users including research analysts to obtain specifications and discuss ideas for new prototype designs.

• Designed, prototyped, coded, and tested company's first web application for broker workstation enabling users to view reports, retrieve statistics, and screen tickers. Technologies used include client-side JavaScript, DHTML (Front-end), server-side JavaScript, Sybase Transact SQL stored procedures (Back-end), Perl/CGI (Script allowing users to e-mail research documents), K-Shell scripts (Database maintenance), and Netscape LiveWire Web Server on a Unix platform.

• Designed, prototyped, coded, and tested the company's first web-based subscription system allowing brokers to subscribe and send research reports to their clients via the web.

• Created graphics using Adobe Illustrator and Photoshop.

• Conducted presentations for users and technical managers.

***Web UI Consultant*, Rimes Technologies Corp., 6/1996 – 8/1997**

• Conducted meetings with directors for obtain specifications and discuss ideas for new site design.

• Designed, prototyped, developed, and maintained corporation's web site using Microsoft Active Server Pages, JavaScript, VBScript, HTML, and MS Access running on MS IIS Web Server.

• Created graphics using Adobe Illustrator and Photoshop.

• Conducted presentations for technical managers.

***Webmaster*, National Envelope Corp., 6/1994 – 6/1996**

• Conducted meetings with directors to obtain specifications and discuss ideas for new site design.

• Designed, developed, and maintained web site using HTML and Adobe Photoshop running on MS IIS Web Server.

**EDUCATION**

**New York University**

College of Arts and Science

BA, Computer Science