

Wei-Chun Tsai

Software Engineer at Taiwan No. 1 Company

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"Risk is our business."



SUMMARY

- 3+ years experience in web front-end development.
- Expertise in HTML/CSS, JavaScript, web frameworks (React, Redux), jQuery.
- Good knowledge of HTTP, RESTful API, user interface design (UI), user experience design (UX), responsive web design (RWD).
- Familiarity with the whole web stack, including protocols and web server optimization techniques.
- Hands-on experience in Git, Node.js, webpack, npm, mocha, Shell script, PHP/MySQL.
- Extensive experience in server management (Amazon EC2, Google Cloud Platform), data visualization (Tableau).

PROFESSIONAL EXPERIENCE

Software Engineer at Taiwan No. 1 Company (Taipei, Taiwan | Feb. 2015 - Present)

Taiwan No. 1 Company is a leading software company in internet security.

- Developed 50+ views and features with great browser compatibility.
- Improved the bounce rate of mobile users by 23%.
- Modified SEO and improved search engine average ranking on Google into rank 1 for specific Chinese keywords.
- Increased average monthly revenue by +12%.
- Server management (Amazon EC2) and database schema design.

Product Engineer at Taiwan No. 2 Company (Taipei, Taiwan | Aug. 2014 - Feb. 2015)

Taiwan No. 2 Company is a leading professional software distributor in Taiwan.

- Tableau industrialization including pre-sales/product DEMO, data visualization & analysis, technical support, and employee training for customers.
- Help customers to use JavaScript API to customize Tableau online report.
- 14 successful cases of industrialization of Tableau.
- Created annual revenue by +21%.
- Professional Tableau instructor with Tableau Bronze Certification.

R&D Engineer at Taiwan No. 3 Company (Hsinchu, Taiwan | Feb. 2012 - Aug. 2014)

Taiwan No. 3 Company is the world's first dedicated semiconductor foundry.

- Resistivity modeling & improvement on P/N junction. Data analysis for new implant & anneal processes.
- Improved PMOS (NMOS) SD resistivity by 18% (11%) compared to figures derived for 20-nanometer technology.
- Developed a novel testline for Schottky barrier height characterization, which achieved a 0.01 eV resolution.
- Solved leakage problems currently plaguing 10-nanometer technology by characterizing p-type background doping in pure-Ge.

SKILLS

- HTML/CSS, JavaScript, React, Redux, jQuery, jQuery UI, jQuery Mobile, webpack, mocha, Node.js, npm, PHP, MySQL, Responsive Web Design (RWD), AJAX/Promise, RESTful API, AngularJS, Git, GitHub, GruntJS, Shell script, Server Management (Amazon EC2), Linux, Windows, C, C++, Python, Java, Data Visualization (Tableau).

LANGUAGES

- Chinese (native), English (fluent)

EDUCATION

- Master of Science in Physics, National Taiwan University (Taipei City, Taiwan | 2008 - 2011)
- Bachelor of Science in Physics, National Taiwan University (Taipei City, Taiwan | 2004 - 2008)

PROJECTS

Web App for Koios

- Front-end Tech: HTML/CSS, JavaScript, jQuery, jQuery UI, React, Redux, Highchart.
- Back-end Tech: Java.
- Utilities: Git, Node.js, npm, webpack.

Web App for Network Function Virtualization Suite

- Front-end Tech: HTML/CSS, JavaScript, jQuery, jQuery UI, React, Redux.

- Back-end Tech: Java.
- Utilities: Git, Node.js, npm, webpack.

Web App for EnforcerX

- Front-end Tech: HTML/CSS, JavaScript, jQuery, jQuery UI, React, Redux.
- Back-end Tech: Java.
- Utilities: Git, Node.js, npm, webpack.

PATENTS

United States Patent

- 9093335 Calculating carrier concentrations in semiconductor Fins using probed resistance
- 9349659 Methods for probing semiconductor fins and determining carrier concentrations therein
- 9412847 Self-aligned passivation of active regions
- 9431288 System and method for test key characterizing wafer processing state
- 9953975 Methods for forming STI regions in integrated circuits