Qiushuang Tian

Software developer

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Projects

Implement modern web pages with HTML, CSS and Javascript   Apr 2021 - May 2021

- Code a restaurant's site such that its components rearrange and resize themselves automatically based on the size of the user's screen.
- Use Javascript to build a fully functional web application that utilizes Ajax to expose server-side functionality and data to the end user.
- Manipulate the web page components using the Javascript Document Object Model API

Work Experience

Oracle, Santa Clara, California - Hardware developer   May 2013 - Oct 2016

- Work on verification for cache coherency unit

Post-silicon Validation of Siete (SPARC M8)   Sep 2015 – Oct 2016

- Develop Perl script to track global errors propagation in post-silicon validation
- Inject errors and check the report with Fault Management Architecture (FMA) in post-silicon validation
- Test RAS of Data Analytics Accelerator (DAX) and L3 cache in post-silicon validation

Cache Coherence Unit Verification of SPARC M8   May 2013 – Sep 2015

- Create test plan for the Coherence & Ordering Unit (COU) interfaces
- Build VMM testbench blocks to verify RTL design of SPARC Core
- Develop and apply directed and random stimulus to exercise COU basic operations; Set up and maintain regressions
- Write COU interfaces checker using SVA ; Measure the progress of COU interface tests with functional coverage and VCS Coverage Metrics (VCM)
- Optimize test cases according to coverage information

Skills

Web development (HTML, CSS, Javascript), Java, Python, Verilog, System Verilog

Education

University of Michigan, Ann Arbor, Michigan   Aug 2011 - May 2013

- Master in Electrical Engineering
- Major: VLSI(very large-scale integration)

Harbin Institute of Technology, China   Sep 2007 - Jun 2011

- Bachelor in Electrical Engineering
- Major in Electronics Information Science and Technology