Qiushuang Tian
Software developer

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Projects

Space Escape: a story based, space themed mini game   Sep 2021

- Build MySQL database with Sequelize
- Developed backend API routes for data CRUD with controller
- Implement mini game Esteroids which the player can control the ship to avoid or hit moving asteroids with React.js
- Implement mini game Gold Collection which the player can control the character to collect golds generated randomly with React.js
- Technologies used: Sequelize, Express.js, React.js, Node.js, JWT(Jason Web Tokens), howler.js and chart.js

CLOVE: an online market for groceries   Aug 2021

- Develop a MVC application with NodeJS Express deployed on Heroku
- User can post products, rate products and send/receive messages
- Build MySQL database with Sequelize
- Build HTML pages with Handlebars
- Create RESTful API routes and HTML routes for data CRUD with controller
- Use Session Storage to check user authentication
- Use Cloudinary for uploading users' profile pictures

Work Experience

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

- Pre-silicon verification and Post-silicon Validation of Siete (SPARC M8)
- Create test plan for the Coherence & Ordering Unit (COU) interfaces
- Build VMM testbench blocks to verify RTL design of SPARC Core
- Develop and apply stimulus to exercise COU basic operations; Set up and maintain regressions
- Write COU interfaces checker and measure the progress with functional coverage and VCS Coverage Metrics (VCM)
- 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

Skills

- Languages: JavaScript, HTML, CSS, Python, Java, Verilog, System Verilog
- Tools: React.js, Handlebars.js, Node.js, Express.js, Sequelize, MongoDB, Service Worker API

Education

University of California, Berkeley, CA   Jun 2021 - Sep 2021

- Coding Boot Camp, Full Stack Web Development

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