I Kuang (Steven) Liu

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PROJECT EXPERIENCE

Siete   **April 2015 – June 2015**

The project code can be accessed here : https://github.com/stevotennis/siete

- Created a web application using JavaScript libraries including: Node.js, Handlebar.js, Bootstrap, D3JS.
- Utilized PostgreSQL and MongoDB to sort and filter through different categories and regions for crimes in San Diego.
- Enhanced the user experience by providing different methods for browsing and minimal clicks for data visualization.

MemeMaster   **June 2014 – July 2014**

- Designed a web application using JavaScript, HTML, CSS, and JSON that allowed users to collect and manage memes.
- Implemented a Google Chrome extension that lets users save memes and gifs to the application using image URLs.
- Adjusted the user interface design by meeting with the client weekly to suit his needs and wants.

SHA-1   **February 2015 – March 2015**

- Designed the Secure Hash Algorithm using Verilog and structuring the state finite machines to determine files integrity.
- Optimized the clock cycles and area by pipelining different stages of the algorithm for memory and time efficiency.

Michael A. Collins Fine Jewelry Store   **September 2012 – December 2012**

- Developed an e-commerce site with a team of eight members using Django with Python reliant REST framework.
- Maintained and created artifacts including code reviews, design use cases, requirements, test plan, and user stories.
- Remodeled the item checkout page to simplify the process and to improve the quality of user interactions.

WORK EXPERIENCE

Cubic Corporation   **April 2017 – Present**
Associate Software Engineer   San Diego, CA

- Troubleshot interfaces between controller processor and digital signal processor in a laser and radio system.

Cubic Corporation   **November 2015 – March 2017**
Associate Systems Engineer   San Diego, CA

- Implemented new data structures for controller processor to interact with the rest of a wearable radio system
- Tested precision for dual GPS and INS sensor for orientation modules in simulated military training equipment.
- Analyzed data from GPS and accelerometer modules with MatLab to determine their reliability in orientation modules.
- Debugged and implemented embedded software using Python to create quicker initialization between interfaces.
- Improved radio communication speed through C programming and embedded system up to fourteen seconds per unit.
- Troubleshot for software and hardware bugs during system integration and tested against customer requirements.

Teradata Corporation   **June 2013 – February 2015**
Storage Engineering Intern   San Diego, CA

- Created scripts in Bash, Shell, and Perl to automate tests that monitored and stressed servers and PCI adapters.
- Integrated and tested host bus adapters in database warehouse systems together set up in different RAID configuration.
- Administrated servers with Linux operating system to capture and fix any behaviors from stress and regression test.

EDUCATION

University of California – San Diego   **June 2015**
B.S. Computer Engineering

Relevant Courses: Advanced Software Engineering, Advanced Data Structure, Algorithms, Web Client Language, Computer Architecture, Database, Human Computer Interaction, Operating System, Digital Design, Successful Entrepreneurship

TECHNICAL AND LANGUAGE SKILLS

- Designing and executing friendly designs and interfaces across various platforms to create a thoughtful brand.
- Proficient in C/C++, Unix/Linux, Shell, Perl, Bash, HTML, CSS, JavaScript, Microsoft Office Professional Suite
- Familiar with Java, Python, Ruby on Rail, JSON, PHP, SQL, Verilog, MATLAB
- Speaks native fluency in Mandarin Chinese

LEADERSHIP POSITIONS

Resident Assistant - The Village at Torrey Pines, UCSD   **May 2014 – June 2015**
Varsity Tennis Team Captain - Granada Hills Charter High School   **September 2009 – June 2010**

ACTIVITIES AND INTERESTS

Volunteer Teacher - The League of Amazing Programmers   **February 2017 – present**

- Taught students from age 12 to 16 about from level of high school Advanced Placement in Computer Science to basic concept of while loops, if statements, and variables.