Ziyue (Zoey) Hu

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EDUCATION

University of California, San Diego   **San Diego, CA**
M.S. in Computer Science GPA: 3.78/4.0   *Sept 2017 - Expected Dec 2018*
Course: Human-Computer Interaction, Web Mining and Recommender Systems, Data Analysis using Spark

Beijing University of Posts and Telecommunications   **Beijing, China**
B.E. in Computer Science and Technology   *Sept 2013 - June 2017*
Course: Network System, Operating System, Database System, Object-Oriented Programming Design

SKILLS

Programming Language: C++, JavaScript, TypeScript, HTML5, CSS3, SASS, Java, Python, Ruby, Ocaml
Frameworks: Angular 5, Rails, Bootstrap, Node.js, Express, JQuery, AJAX
Tools/Platforms: WebStorm, Qt, Github/Git, AWS, Google Analytics, JIRA, Photoshop, Sketch
Database: MySQL, PostgreSQL, SQLite

EXPERIENCE

Full-Stack Developer Internship - Corza Technologies, Inc.   **San Diego, CA**
https://xilo.herokuapp.com/auth/login   *Mar 2018 - present*
Working in an effective start-up team on a sales automation software for independent insurance agencies.
○ Lead the development of visual analytic section of the website with **Angular 5** and **Google Chart API**.
○ Create reactive validation forms and communicate with server using **RESTful** web services.
○ Design **unit test** and **integration test** cases, track the defects, perform retesting.
○ Work alongside with the development and design team, build product using **Agile SCRUM Methodologies**.
○ Involve in peer review, daily stand up meetings, sprint showcase and sprint retrospective.

Research Assistant - Tsinghua University   **Beijing, China**
Research Institute of Information Technology, HCI Team   *April 2015 - June 2017*
Worked with Dr. Yongqiang Lyu to establish a health-care platform which measures user's cognitive load and mental stress by fingertip PPG signals.
○ Developed monitoring software in C# which supports real-time signal collection, displaying and analysis.
○ Designed and validated an intelligent cognitive load analysis model based on single cycle waveform with **Scikit-learn**. Compared with traditional method based on the mean value, the model has more sensitive and stable real-time recognition performance for distinguishing the pressure/calm status (Accuracy: 95.74%).

PROJECTS

YelpDemo - A Reviews and Ratings Aggregator Like Yelp   *Sept 2018 - Sept 2018*
○ Built a site for people to browse and add reviews for restaurants with **Ruby on Rails**.
○ Used the **Google Maps API** to embed a dynamic map. Built the search functionality with Searchkick gem.
○ Implemented database architecture, using **PostgreSQL** for production and **SQLite** for development.
○ Developed the visually engaging user interface like Yelp using **HTML5, SASS** and **Bootstrap**.

SurfStore - A DropBox-like Storage Service   *May 2018 - June 2018*
○ Developed a networked file storage application in **Java**, supporting **CRUD** operations to a file.
○ Implemented the distributed fault-tolerant storage using replicated state machine and 2-phase commit.
○ Built a web server that implements a subset of the **HTTP/1.1** protocol specification.

Little Things - An Idea Sharing Mobile Web APP   *Jan 2018 - Mar 2018*
○ Designed a web app for sharing and exploring ideas, incorporating **user research** and **usability test** findings.
○ Developed the user interface using **HTML5, CSS3, JQuery** and **AJAX**.
○ Improved the UI design through **A/B testing**, analyzed web traffic with **Google Analytics**.

Talk - An Application for Social Sharing Q&A   *Oct 2015 - Jan 2016*
○ Developed a Windows desktop application in **C++**, supporting multi-user operations.
○ Implemented the client-server architecture using **STL**, **TCP/IP Sockets**, and **Multi-threading**.