Ursula Chang

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PROJECTS

OkCookie *(Rails, React, Javascript)* | live | github
Dating website based on OKCupid.
- Dynamically and efficiently updates UI with React.js's diffing algorithm.
- Matches are evaluated on the backend and made available to the front-end through a RESTful JSON API.
- Implements user likes table via polymorphic associations to keep database normalized.

Retro-Snake *(Javascript, HTML5)* | live | github
Browser version of classic Snake game made with Javascript and jQuery.
- Dynamically updates player's score and health through jQuery.
- Class methods dynamically validate objects positions to ensur no overlap.

ActiveRecord Lite*(Ruby)* | github
The functionality of ActiveRecord.
- ORM provides associations and other object-oriented design patterns using Ruby's metaprogramming capabilities.

SKILLS

Ruby, Rails, Javascript, jQuery, React, HTML, CSS, SQL, git, TDD, PHP, Python (learning), Node.js (learning)

EXPERIENCE

Neuroscience Intern - *Max-Planck Institute (2015)*
- Created Matlab code analyzing behavioral and fMRI brain data from 70+ subjects.
- Instructed and prepared test subjects (70+) for experiments; led them through the fMRI experiment.
- Analyzed data and selected significant data relevant to developmental changes of the brain.

EDUCATION

Web Development - *App Academy (Fall 2015)*
Immersive software development course with focus on web development and agile methodologies. Strong emphasis on best practices and design patterns.

MSc Candidate - *Freie Universitaet Berlin (Fall 2014 - Spring 2015)*
Scientific work in the fields of fundamental and applied research with neurocognitive methods.
Curriculum Highlights | 12703 Statistics Methods • 12712 Applied Programming |

BA Education (Experimental Psychology)
University of Alabama in Huntsville, 2014
GPA 3.9
Curriculum Highlights | PY300 Psychological Statistics • PY498 Research Methods • M1411 Calculus|

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