

# 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 ensure 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)**

## 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 |

**GITHUB** [umgoldstein](#)

**PORTFOLIO** [www.ursulachang.com](http://www.ursulachang.com)

**LINKEDIN** <https://www.linkedin.com/in/umchang>