EDWARD R. OWENS

edwardrowens@gmail.com

EDUCATION

University of California, Los Angeles June 2014

Bachelor of Science, Cognitive Science, Specialization in Computing

Relevant Coursework: Principles of Java Language with Applications, Intermediate C++, Machine Learning, Signal Detection Theory, Psychological Statistics, Perception, Learning and Learning Technology

TECHNICAL SKILLS

General

- Professional experience in software testing (integration, unit, and user) and development (test driven) in Java.
- Javascript (React) and NodeJS (via Express)
- Moderate experience in Linux scripting (C-shell, and Bash), MATLAB, and R
- Writing and executing SQL queries
- Atlassian software development tools
- Subversion and Git version control

Java

- Utilizing Java via Eclipse to write maintainable, scalable, and testable code
- Testing frameworks and concepts such as Mockito, JUnit, Mocks, and Captors
- Knowledge of industry-standard Java libraries such as Mockito, Google Guava, and multiple Apache libraries
- Familiar with web service development and SOAP experience

C++

- Implemented a socket-level, asynchronous, single server to multiple client TCP network using Boost's Asio library
- Muli-threaded applications using SDL's library as well as Boost's
- Knowledge of advanced programming techniques such as caching, smart pointers, and function binding

PROFESSIONAL EXPERIENCE

CHP Consulting September 2015 – Present

Technical Consultant

- Developed, maintained, and tested a large scale, OS agnostic, and efficient web app in the asset finance industry used by multiple clients internationally to service portfolios ranging from one to millions of contracts.
- Worked in teams of developers making use of Agile software development techniques as well as test driven development in Java.
- Made use of advanced programming and software development concepts such as dependency injection via Google Guice to provide high quality, maintainable, and testable code.
- Utilized Atlassian tools and Subversion version control to oversee commits and ensure the quality of the company's product

UC Davis MIND Institute, Solomon Laboratory August 2014 – July 2015

Junior Specialist; Principal Investigator: Marjorie Solomon, Ph. D.

- Utilized applied mathematical techniques (i.e. graph theory) to investigate functional connectivity between regions of interest in the brain
- Conducted analyses using correlations, linear regressions, Chi-Squares, ANOVA's, t-tests, and general linear modeling in SPSS, R and custom written scripts to investigate the relationship between Autism Spectrum Disorder and transitive inference
- Wrote multiple scripts and pipelines in various Linux shells, MATLAB, R, and C++ to investigate statistical relationships between variables of interest and general usage.

UCLA, Rissman Memory Laboratory August 2013 – August 2014

Research Assistant; Principal Investigator: Jesse Rissman, Ph. D.

- Collected MRI data, performed quality assurance, preprocessing, and analysis
- Utilized various forms of analysis and imaging software such as SPM, FreeSurfer, MRICron, and Caret on resting state as well as task-based fMRI data
- Programmed in many different languages such as Bash and MATLAB to conduct between group analyses and inverse normalize subject's to their native space for manual tracing