Katie Bui

full-stack web developer
& artificial intelligence lover
kgbui@uci.edu
ti-lun.github.io

WORK EXPERIENCE

STATISTICAL LEARNING AND INFERENCE GROUP AT UC IRVINE
January 2017 to present
Research group member

- Working with Dr. Alex Ihler and Qi Lou on developing a back-tracking heuristic decision algorithm
- Will submit a thesis by June 2017

MERIDIANLINK
June 2016 to Sept 2016
Software Developer Intern

- Created a Google-forms-esque web app that went above and beyond what the company asked for in terms of UI/UX and functionality.
- Wrote parsing libraries with JavaScript/jQuery, REST API web-services in Visual Basic, an admin page from HTML/CSS and .NET libraries, and an accessible SQL database.

FLINT REHABILITATION
Nov 2015 to May 2016
Software Engineering Intern

- Updated graphics and refactored Java code in a game meant to restore motor function in stroke patients
- Modeled SQL databases and designed front/back-end with Django, and gathered data on Flint's customers with Python's requests API

DONALD BREN I&CS SCHOOL
April 2016 to June 2016
Tutor

- Explained problem-solving and design principles to first-year computer science students
- Debugged a great deal of badly written Python code

PROJECTS

Connect-K AI CONNECT-K ARTIFICIAL INTELLIGENCE
Created an AI that could play Connect-K (it can play Connect 4, for example) using the MiniMax decision rule with alpha-beta pruning and move reordering

elaine's valley VIDEO GAME ABOUT MENTAL HEALTH
Designed detailed characters, environments, robust story and gameplay for a five-person team. I also lead the team, hold meetings and evaluate everyone's work.

Pitch Perfect iOS PROJECT
iOS app that mutates recorded audio, coded up with Swift

Recipe generator STANFORD'S TREEHACKS ENTRY
Used JavaScript, HTML/CSS, Meteor framework and Spoonacular API to create a web app that generates food recipes. Designed UI with Photoshop.

EDUCATION

UNIVERSITY OF CALIFORNIA, IRVINE
Class of 2018
MAJOR   Computer Science
MINOR   Statistics

COURSES (INCLUDING ONLINE)
- Introduction to Artificial Intelligence
- Machine Learning & Data Mining
- Data Structures
- Databases/Data Management
- Introduction to MEAN stack
- Design and Analysis of Algorithms

LANGUAGES
C++, Python, C, JavaScript, jQuery, Visual Basic, HTML/CSS, Swift, C#, Bash, Java