

Katie Bui

full-stack web developer
& artificial intelligence lover
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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 backtracking heuristic decision algorithm
- Modifying a heuristic function for an A* search algorithm to better serve AND/OR search trees
- 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

Clubtree WEB PLATFORM FOR CAMPUS CLUBS

Designing and leading a team of MEAN stack developers to create an online platform for users to form clubs and display them on the UC Irvine campus

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

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