

# ROY DEY

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## EDUCATION

University of California, Davis | B.S. Computer Science, June 2020 | 3.4/4.0

Relevant Coursework: Object Oriented Programming, Data Structures, Algorithms, Operating Systems

## TECHNICAL SKILLS

React, Node, JavaScript ES6, Python 3, HTML 5, CSS 3, Bootstrap, AngularJS, MySQL, REST API, Git

## EXPERIENCE

### Application Developer | UC Davis

July 2019 – June 2020

- Contributed extensively to the development of the UC Davis Software Catalog site which generates the bulk of UC Davis' internet traffic and software-related commerce (Running Instance: <https://tinyurl.com/ybnsqgow>)
- Improved site usability by displaying software items and services in grid format. Enabled users to refine search results by creating a toggleable sidebar filter. Increased quality of life by allowing users to retrieve a live view of the items inside their shopping cart. Improved software site maintainability by creating administrative tools used for tracking software license information. Work was accomplished with Bootstrap and AngularJS
- Enabled UC Davis management to better determine future changes to their web properties by creating proof of concept enhancements and risk-reward analyses regarding their respective ease of implementation
- Developed a polling service which gives UC Davis staff and faculty a convenient and free platform to build their own tests, collect live responses, and grade user submissions automatically. This application is being considered as an alternative to paid services such as iClicker. Utilized Bootstrap and AngularJS for the user interface and client side aspect of the application, and used the ServiceNow framework to handle table storage

### VR Research Intern | Ravv, Inc.

July 2017 - Sept 2017

- Researched new and emerging virtual reality technologies to be presented on the company website
- Conducted quality assurance on in-development virtual reality products concerned with therapy for PTSD, phantom limb pain, and anxiety to ensure usability
- Attended networking events related to virtual and augmented reality to expand industry connections

## PROJECTS

### Raphunt (React)

Sept 2019

- Built a web application which finds new/trending hip-hop and rap releases and displays their streaming links
- Enabled users to better prioritize their time by implementing a statistical popularity system to rate songs

### Connect 4 AI (React)

Nov 2020

- Created a connect 4 web application which pits the player against an AI controlled opponent
- Implemented multiple AI opponents using various types of game search algorithms

### Breast Cancer Classifier (React, Python)

Oct 2020

- Built a web application which allows users to customize their own cancer classifying machine learning model
- Displays real time metrics and graphs so users can understand how their actions are affecting model accuracy

### Cal Hacks Meal Planner (jQuery, MySQL)

Nov 2018

- Built a web application which simplifies tracking daily nutrient goals and displays recorded meals
- Supported flexible dieting goals by allowing users to create custom meals and incorporate multiple foods

### AI Reverse Image Search (Matlab)

Oct 2019

- Built an application which takes a query image and finds the closest matching images from a bank of images
- Increased result accuracy by matching query and bank images based on shared patches of distinct features