

ROY DEY

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EDUCATION

University of California Davis | B.S. Computer Science | GPA: 3.4/4.0 Nov 2016 - June 2020
Relevant Coursework: Data Structures, Algorithms, Object Oriented Programming, Scripting Languages, Operating Systems, Artificial Intelligence, Computer Vision, Machine Learning, Computer Networking

TECHNICAL SKILLS

Languages: JavaScript ES6, Python 3, HTML 5, CSS 3, C++, MATLAB, SQL
Frameworks/Systems: React, Bootstrap, AngularJS, NodeJS, ExpressJS, PostgreSQL, MySQL, REST API, Git

WORK EXPERIENCE

Application Developer July 2019 - June 2020
University of California Davis Davis, CA

- Led complete frontend reimplementation of UC Davis software ecommerce website to improve the customer experience, including building a mobile-first experience from scratch (Angular, Bootstrap) and adding new features to improve shopping checkout process.
- Built testing platform for teaching staff to create and administer tests with automated tools, saving 2+ hours of manual labor per week and replacing expensive vendor solutions (Angular, Bootstrap, SQL)
- Developed robust search tools for teaching staff to easily track software licenses, replacing manual spreadsheet lookup
- Rapidly prototyped features to help university management determine and act on future changes to campus web properties

VR Research Intern July 2017 - Sept 2017
Ravv, Inc. Milpitas, CA

- Researched new and emerging virtual reality technologies to be presented on company website
- Conducted quality assurance on in-development virtual reality products concerned with therapy for PTSD, phantom limb pain, and anxiety to ensure usability

PROJECTS

Connect 4 AI (React) | https://github.com/rdey0/connect4_ai 2020

- Developed a connect 4 web application which pits players against an AI controlled opponent
- Used React for the front end and JavaScript to create challenging game search algorithms for AI opponents

Raphunt (React) | <https://github.com/rdey0/raphunt> 2019

- Developed a web application which gathers trending hip-hop song releases and displays their streaming links
- Used React for the front end, Reddit API for song collection, and regex for parsing relevant song information

Interactive Cancer Classifier (React, Express, Python) | https://github.com/rdey0/cancer_classifier 2020

- Developed a web application which teaches users how selected data and parameters affect classifier accuracy
- Used React for the front end and hosted machine learning python scripts with an Express API on Heroku

Reverse Image Search AI (MATLAB) | https://github.com/rdey0/reverse_image_search 2019

- Built an application which takes a query image and finds the closest matching images from an image bank
- Used Matlab for the user interface and for programming robust image feature matching for AI search

Seam Carving Image Resizer (MATLAB) | https://github.com/rdey0/image_resizer 2019

- Built an application which resizes images while preserving fine detail better than pixel interpolation
- Used Matlab for the user interface and filter/gradient libraries to process images for resizing

Cal Hacks Meal Planner (jQuery, MySQL) 2018

- Designed a web application which simplifies tracking daily nutrient goals and displays recorded meals
- Used jQuery for the front end and MySQL to store user account and food information