

Thadiel Zancoli

Software Engineer

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Education

Bachelor's Degree in Software Engineering

University of California, Irvine, 3.7 GPA

September 2020 - June 2024

Experience

Software Developer

University of California, Irvine

February 2024-Present

- Developed software for application which maps subsurface heavy metal pollutants utilizing NASA WorldWind, Cesium, ThreeJS, and Unreal Engine.
- Ensured stable migration of back-end algorithms with front-end interface using Express for NodeJS, HTML, TailwindCSS while following industry standards design heuristics.
- Implemented functionality for KML files to dynamically populate 3D globe visualization.

Projects

Task-Oriented Calendar Application | *NextJS, Tailwind CSS*

User Interaction Software

March 2024 - June 2024

- Calendar web-application which goes against traditional event-driven infrastructures and aims for a more task-driven approach
- Saves user information and remembers choices and task completion

Investigation of Classification Methods for Fashion-MNIST | *Python, R, Scikit-Learn*

Machine Learning and Data Mining

January 2024 - March 2024

- Investigated and compared efficiency and accuracy of K-Nearest Neighbors, Logistic Regression, Feedforward Neural Networks and Convolutional Neural Networks when tested on Fashion-MNIST dataset.
- Ran extensive training to find most important parameters as well as most efficient weights and biases for parameters.

Laguna Beach Mobile Web Application | *React, Expo, CSS, Firebase*

Senior Design Project

September 2023 - March 2024

- Partnered with the Laguna Ocean Foundation to design, iterate, and develop a web application to be used for informing users of best practices while visiting beaches and tidepools.
- Co-Lead Developer in charge of developing responsive Mobile Web Application which uses Google Maps API to give user information about Laguna Beach and connects to a back end Firebase database holding information about various marine life.
- Connect with NOAA API to give users up to date information about tide levels near them.

Web Crawler with Search Engine | *Python*

Information and Data Retrieval

March 2023 - June 2023

- Developed web crawler which reads through a corpus of over 10,000 documents while following politeness for every domain.
- Developed search engine returns an accurate list of responses in less than 300 milliseconds using a page ranking algorithm.

Technical Skills

- Languages: Python, Java/JavaScript, C++, HTML, CSS, SQL
- Frameworks: React, Node JS, Express, Next JS, Expo
- Technologies and Tools: Git, UML, REST APIs, VS Code, Firebase
- Relevant Coursework: Machine Learning and Data Mining; Information and Data Retrieval; User Interaction Software; Software Design of Applications; Software Testing, Analysis, and Quality Assurance; Senior Design Project