Rithwik Kerur

(669) 224-5221 | rithwik.kerur@gmail.com

https://www.linkedin.com/in/rithwik-k-5090361aa/ | https://github.com/RithwikKerur

Education

University of California, Irvine: Campuswide Honors Collegium

B.S. in Computer Science, Minor in Innovation and Entrepreneurship: 2020-2024

GPA: 3.96

Technical Skills

Programming Languages: Python, Java, C++, JavaScript, Typescript

Concepts: GitHub, Gitlab, HTML, CSS, RESTful APIs, React, MongoDB, Bootstrap 4, Node.JS, Fetch, Redux, CRUD, BaaS, SQL, PostgreSQL, Ember.js

OS: MacOs, Linux/Unix, Windows

Experience

Amazon Aws: Software Engineering Intern June 2023 – September 2023

- Worked on the AWS Connect team to help build the new frontend using React frameworks.
- Queried DynamoDB databases and resolved any differences due to delays in database propagation.
- Wrote 5 external facing APIs that serve as a wrapper for internal Amazon APIs to decrease latency.

University of California Irvine: Research Assistant February 2022 – present

- Primary author on the paper Robust Occupancy Computation based on WiFi Connectivity Events
- Created a REST API with 3 endpoints that queries to MySQL and PostgreSQL databases.
- Created a website using Node.js, React and Bootstrap frameworks that queries to the Restful API.

Bentley Systems: Software Engineering Intern June 2022 – September 2022

- Worked on backend for the SpidaMIN team and learned technologies like ember.js, REST API, PostgreSQL, MongoDB.
- Implemented OAuth and OIDC protocols for logging users onto the application.
- Worked in a fast-paced team environment and developed skills such as public speaking, debugging in production environments, and communication.

University of California Irvine: Research Assistant January 2021 – September 2021

- Created a Boosted Tree Classifier using TensorFlow with a raw accuracy of 98% and a balanced accuracy of 96%. This model was the focal point of the paper cited in the Publications.
- Created a different model to help predict the change in a patient's blood pressure after administration of medication.

Publications:

- **"**Prospective clinical evaluation of a machine-learning trained algorithm for detection of arterial pressure transducer drop" **https://doi.org/10.1016/j.ibmed.2022.100063**
- **"**Robust Occupancy Computation based on WiFi Connectivity Events"