Tito Yak Kuol

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Education

Harvard University   Cambridge, MA
AB in Computer Science

Courses: Introduction to Computer Science(Algorithms, Memory, Data Structures, Databases), Abstraction and Design in Computation, Discrete Mathematics for Computer Science, Software Engineering, Calculus II, Statistics for Quantitative Methods

Technical Skills

Programming: JavaScript, Python, Node.js, SQL, OCaml, HTML5, CSS3, Bootstrap
Frameworks and Libraries: Flask, React, Express, SQLAlchemy, MongoDB, PostgreSQL

Projects

Bookyst:
Bookyst is a social cataloging web application that allows users to recommend books to the community of readers. They can create 'shelves' and add books they have read. They can access others' recommendation and read plot summaries before choosing to read. Implemented here in Node.js, MongoDB, Express, Mongoose, Pug, and CSS.

Dadu:
Dadu is a "jeopardy game" in which the dominant decision is whether or not to jeopardize previous gains by rolling for potential greater score. Implemented it as a strategy game, a version of dice game for two players. It allows players to play as many times as they want to accumulate points in each round. There is a default winning points or they can set a winning target. Players choose to 'hold' to protect their points in each round or risk losing all if they throw a 1 in a round.

Dispatchbox:
Dispatchbox is a simple Flask application that allows users to sign up and create public chatrooms for direct messaging. Users can join available chatrooms or create their own. Direct messaging is limited to a user's session and conversations are temporary. This application is built with Python, Flask, JS, socket.io, HTML5, CSS3, and Bootstrap 4.

Google Search:
This is a front-end for Google Search, Google Image Search, and Google Advanced Search. Implemented using dynamic forms for sending keywords combination to google routes. Advanced search returns pages that meet either all search keywords, exact words/phrases, any of the words, or none of them.

Experience

Twende Carpool: Software Engineer Intern   *June – August 2019*
Worked with a team of three in designing and implementing web app for booking and offering trips. Travelers book trips by entering their origins and destinations and update their public details in settings page of their profiles. Drivers offer trips by entering their origins, destinations, and departure times. Implemented the backend authentication logics in Python.

Branch International: Data Analyst Intern   *January – March 2020*
Worked with Collection team in analyzing borrowing rates and setting criteria for 'good' borrowers. Built dashboards in Sisense for monitoring loan disbursements and repayments. Made reports on weekly trends in our dashboards. Used PostgreSQL in performing queries for data visualization. Evaluated performance of our loan collection agencies.

Leadership & Activities

Harvard Summer School: Proctor   *April – August 2018*
Worked with dean of students, director of Secondary School Program, and Summer School assistant deans in supervising and advising students to create an environment conducive for an academically productive summer experience.

Harvard Political Review: Staff Writer   *January 2018 – present*
Correspond on current political affairs and events in Sub-Saharan Africa with a focus on economic development and political representation.