

JEFF LI

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EDUCATION

University of California, Berkeley

Expected Graduation: Dec. 2022

B.A. Data Science, Emphasis on Cognition

Coursework:

Algorithms, Data Structures, Computer Programs, Probability Theory, Discrete Mathematics, Linear Algebra, Differential Equations, Multivariable Calculus

SKILLS

Languages: Python, Java, SQL, JavaScript, HTML/CSS

Frameworks/Technologies: React, Node.js, Bootstrap, MongoDB, Express.js, Redux, NumPy, Pandas, Git, Google Cloud, Heroku

EXPERIENCE

Laney College Mathematics Department

Oakland, CA

Mathematics Tutor

August 2018 - June. 2020

- Tutored over 50 students on math subjects such as Calculus, Linear Algebra, Statistics, Geometry, Algebra
- Helped manage the front desk, assisted students borrow textbooks, contact professors during office hours
- Helped professors give out homework, quizzes and exams to students, make sure students stay on track

PROJECTS

Full Stack Ecommerce Website | *React, Redux, Node, Express, MongoDB*

[Github Link](#)

- Built Full featured shopping cart with PayPal credit/debit payments integration using the PayPal API
- Created frontend with React Functional Components level state, props, Hooks, React-Bootstrap UI library
- Built backend with Node and Express, MongoDB database and Mongoose ODM
- Created Global state management with Redux, Admin user to manage customers, products and orders
- Utilized JSON web tokens and custom authentication middleware for security, deployed through Heroku

World Game Generation Engine | *Java, Princeton StdDraw Library*

Contact for Github access

- Created an engine to generate pseudorandom unique worlds in a team of two.
- Implemented user interactivity, freely move the avatar with arrow keys, up to two avatars, one per user
- Built a GUI main menu for users to select different game options

Distributed Version Control System | *Java*

Contact for Github access

- Recreated version control system Git, implements proper data structure for persistence and serialization
- Created similar Git features init, add, commit, rm, log, find, status, branching and checkout
- Maintained history of backups and sequences of commits in a commit tree

Weather Forecast App | *React*

[Github Link](#)

- Implemented the frontend using React components
- Integrated the OpenWeatherMap API to receive real time data stream
- Allowed users to search the current weather for more than 200,000 cities in the world

Sudoku Solver Visualizer | *Python*

[Github Link](#)

- Created the GUI using Pygame, allow users to input any sudoku puzzles
- Applied the Backtracking algorithm to solve and visualize any sudoku puzzles