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*
- Tutor over 50 students on math subjects such as Calculus, Linear Algebra, Statistics, Geometry, Algebra
- Help manage the front desk, assist students borrow textbooks, contact professors during office hours
- Help 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*
- Full featured shopping cart with PayPal credit/debit payments integration using the PayPal API
- React with Functional Components level state and props, Hooks, React-Bootstrap UI library for frontend
- Extensive backend with Node and Express, MongoDB database and Mongoose ODM
- Global state management with Redux, Admin user to manage customers, products and orders
- JSON web tokens and custom authentication middleware for security, deploy through Heroku

World Game Generation Engine | *Java, Princeton StdDraw Library* *Contact for Github access*
- Work in a team of two to create an engine to generate pseudo-random unique worlds
- Enable user interactivity, freely move the avatar with arrow keys, up to two avatars, one per user
- Create a GUI main menu for users to select different game options

Distributed Version Control System | *Java* *Contact for Github access*
- Recreate version control system Git, implements proper data structure for persistence and serialization
- Create similar Git features init, add, commit, rm, log, find, status, branching and checkout
- Maintain history of backups and sequences of commits in a commit tree

Weather Forecast App | *React* *Github Link*
- Implement the frontend using React components
- Integrate the OpenWeatherMap API to receive real time data stream
- Allow users to search the current weather for more than 200,000 cities in the world

Sudoku Solver Visualizer | *Python* *Github Link*
- Create the GUI using Pygame, allow users to input any sudoku puzzles
- Apply the Backtracking algorithm to solve and visualize any sudoku puzzles