JEFF LI

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EDUCATION

University of California, Berkeley   **Graduation** December 2022
B.A. Data Science, Emphasis on Cognition
Coursework:

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

SKILLS

Languages: Python, Java, C, JavaScript, HTML/CSS, SQL
Frameworks/Technologies: React, Node.js, Bootstrap, MongoDB, Express.js, Redux, NumPy, Pandas, Git,
Google Cloud, Heroku

EXPERIENCE

Laney College Mathematics Department   August 2018 – June 2020
Mathematics Tutor   *Oakland, CA*
- 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**
- Built backend with **Node.js** and **Express.js**, **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*
- Applied the **Backtracking Algorithm** to solve and visualize any sudoku puzzles
- Created the GUI using Pygame, allow users to input any sudoku puzzles