SHELVIN SINGH

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Github: github.com/OskiTheCoder *LinkedIn*: linkedin.com/in/shelvin-singh

Education

University of California, Berkeley, *Electrical Engineering and Computer Science, B.S.* **Dec 2018**

- **Courses: Artificial Intelligence, Computer Architecture, Data Structures, Databases, Efficient Algorithms, Networking, Security, Optimization Models, Probability**
- **GPA: 3.79/4.00**

Experience

Orchestrade Financial Systems, *Software Engineer* **Dec 2018 - Present**

- **Developed Alpha Omega FS as an Import/Export interface to handle post-trade processes to prepare Equity trades for settlement.**
- **Implemented grouping algorithms for the trade and transaction file layouts of Goldman Sachs, Morgan Stanley, Credit Suisse, and Citi for Bonds, Equity, Repo, Futures, and FX.**
- **Implemented feature as Excel-DNA add in to allow users to load Risk Reports from Risk Server and API directly into Excel in real time.**

University of California, Berkeley, *Lab TA* **Jan 2017 – May 2017**

- **Assisted introductory Computer Science students with setting up coding environments, understanding concepts covered in lecture, and developing better coding practices.**

Sierra College, *Physics and Mathematics Tutor* **March 2014 – May 2016**

- **Lead students on an individual and group level to develop a deeper understanding of course material.**
- **Courses taught: Algebra, Calculus, Differential Equations, Statistics, Linear Algebra, Mechanics, Electricity and Magnetism, and Waves.**

Projects

Colors, *React* **Nov 2019**

- **Built a hybrid clone of Flat UI Colors and Material UI Colors.**
- **Users can select and copy 180 CSS friendly color codes from 9 unique palettes as well as design their own palette.**

Google Keep, *Node.js, MongoDB* **July 2019**

- **Built lightweight note tracking clone of Google Keep that maintains and updates note taking state using MongoDB.**

Pac-Man A.I., *Python* **May 2019**

- **Implemented logic for bot that can optimally play Pac-Man based on goals.**
- **Key ideas include state-space search algorithms, Minimax algorithm, Markov Decision Processes with alpha-beta pruning, Bayes' Nets, and Reinforcement Learning.**

Skills

- **Proficient: Python, C#, SQL, Git, Subversion, NumPy, HTML, CSS, Pandas**
- **Experience: Java, JavaScript, Django, React, NoSQL, Swift, Node.js, Bootstrap**