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Brian Zhen

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EDUCATION

Berkeley, CA **UC Berkeley** **Graduating May 2018**

- Bachelor of Arts in Computer Science

Coursework

- Data Structures; Algorithms, Data Science, Artificial Intelligence, Databases Internet Architecture and Protocols, Operating Systems, Computer Security

EXPERIENCE

Software Engineering Intern **Dell EMC** **Summer 2017**

- Accelerated data integrity checks tool by 50% using Python's multiprocessing module thereby cutting wait time in half, normally measured in days on large data sets, to find data integrity issues.
- Data tool is used daily by QA teams. All code was reviewed, perfected, and pushed to production.

Research Assistant **UC Berkeley** **Spring 2017**

- Worked with Professor Deborah Nolan to implement a random forest model and a convolutional neural network for classifying reviews as having positive or negative sentiment. Achieved 83% and 81% test accuracy, respectively, on Amazon, IMDB, and Yelp datasets.
- Ideas inspired by Kotzias et al: From Groups to Individual Labels using Deep Features.

Software Engineering Intern **Cavium Inc.** **Summer 2016**

- Developed scalable Python code to generate dynamic schematics of test environments, thereby increasing productivity of engineers by removing the need for manual creation of schematics of massive datasets and manual code walkthrough to draw visualizations.

PROJECTS

WAN Optimizer **Fall 2016**

- Designed and implemented an efficient middle-box application to optimize amount of data transmitted over a wide area network. Up to 98.7% less bytes of data to be transmitted. [Python]

Kidney Exchange **Spring 2016**

- Implemented a new system for kidney matching through improvements of algorithms, resulting in better and faster network of kidney donations. [Python]

PageRank with Spark **Fall 2015**

- Implemented two different variations of the classic PageRank algorithm using the MapReduce programming paradigm in the Spark framework. [Spark Python API]

Gitlet **Spring 2015**

- Designed and implemented a version control system that mimics the basic features of Git. Users can perform add, commit, log, branch, and checkout commands. [Java]

SKILLS

- **Languages:** Python, Java, R, SQL, C, JavaScript, HTML, CSS
- **Tools/Frameworks:** Git, Spark, Numpy, Scipy, Pandas, Scikit-learn