Kile Young

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EDUCATION

University of California, Berkeley | Berkeley, CA — **Expected Graduation:** May 2019
B.S. Electrical Engineering and Computer Science — **GPA:** 3.2
Relevant Courses:

- Data Structures | Efficient Algorithms and Intractable Problems | Discrete Mathematics and Probability Theory | Artificial Intelligence | Machine Learning | Circuit Design, Signal Processing, Controls, and Systems | Linear Algebra and Differential Equations | Advanced Probability | Computer Architecture | Optimization Models in Engineering | Operating Systems

TECHNICAL SKILLS

Languages/Technologies (Order of Proficiency): Python, Java, C, R, MATLAB, SPARK, RISC-V, git, TensorFlow, HTML, CSS, Javascript

PROFESSIONAL EXPERIENCE

Data Analyst/Researcher | SimpleWater | Berkeley, CA — January 2018 – Present

- Analyzed large data sets parsed from online press to evaluate current trends in water-related news.
- Researched with ML and NLP techniques to make predictions about the public's changing outlook on water.
- Gained experience working in a small team environment and start-up sized company.

Software Development Engineering Intern | **Veritas Technologies LLC** | Mountain View, CA — May 2017 – August 2017

- Collaborated on a team of 4 to develop a web based native viewer capable of being embedded in any Veritas product; incorporated a RESTful API built with Java and deployed with Apache Tomcat.
- Paved the path for further development of the eDiscovery Platform by prototyping a new system that not only supports more file types, but also incorporates a more up-to-date API and HTML5 compliance.

Lab Assistant | **CS61B: Data Structures** | **UC Berkeley** | Berkeley, CA — June 2016 – August 2016

- Worked with teaching assistants for UC Berkeley's Data Structures and Algorithms course to help over 50 students in debugging and understanding their code.

Systems Engineering Intern | **Boeing** | Huntington Beach, CA — June 2014 – August 2014

- Learned the basics of penetration testing with common methods such as brute-force hacking and experimented with network monitoring tools such as Wireshark.

PROJECTS

Yelp! Restaurant Recommendations | Python | TensorFlow | Scrapy (Current) — August 2017 – Present

- Used data from Yelp's star rating system to recommend users new restaurants based on their previous valuations on other restaurants and other user's ratings for the same places.
- Incorporated unsupervised learning with a latent factor model and data parsing with Scrapy's API.

Quantitative Trading | Python (Current) — August 2017 – Present

- Experimented with building a custom trading algorithm to be deployed after thorough backtesting had been completed.
- Included extensive research in high frequency trading, forex markets, and arbitrage trading methods and strategies.
- Utilized machine learning techniques to evaluate past market trends and apply them to current market circumstances.

Text Editor | Java — March 2016

- Built from scratch with many functionalities: cursor clicking, highlighting, copy/paste, undo/redo, arrow keys, font adjustment and coloring, word wrap, text window resizing, scrolling, and open/save.
- Created with a custom LinkedList data structure so that actions run in O(1) time.

Neural Networks and DeepLearning Number Classification | Python — April 2017

- Built a classifier that implements perceptrons and neural networks to identify hand written numbers.
- Tuned the classifier with the training data to correctly identify over 95% of the numbers in the test data (MNIST).

Random Forests | Python — May 2017

- Built decision trees and a random forest algorithm from scratch for classification over a census dataset.
- Used ensemble learning and bagging techniques to create a 90% accurate random forest classifier.

LEADERSHIP AND PROJECTS

Electrical Design Team Member | **Solar Decathlon** | **UC Berkeley** | Berkeley, CA — August 2015 – January 2017

- Designed the electrical systems and layout of our net zero energy efficient house in an international competition hosted by the US Department of Energy.
- Took into consideration the most effective way of implementing both AC and DC currents with a home battery to produce a design that minimized the use of electricity by 300%.

AWARDS AND HONORS

Boeing Scholars Scholarship — September 2016

- Recognized for exceptional leadership skills and passion for engineering.

OTHER INTERESTS

- Visual Art (10+ yrs), Trading, Graphic Design, Judo (Black Belt), Wrestling, NBA, TV series, Daily Workout, Dogs.