

Kevin Arifin

302 Lowell Dr., Santa Clara, CA 95051 | (408) 242-0394 | kevarifin14@berkeley.edu

Education

School: **University of California, Berkeley** | Overall GPA: **3.756**

Major: **Electrical Engineering and Computer Sciences, B.S.** | Graduation: **May 2018**

Awards & Honors: Eta Kappa Nu (HKN) - top fourth of class in EECS, Tau Beta Pi (TBP) - top fifth of class in Engineering, Cal Alumni Association Leadership Award, Dean's Honors, Honors To Date

Relevant Coursework: Algorithms (CS 170), Database Systems (CS 186), Artificial Intelligence (CS 188), Machine Learning (CS 189), Optimization Models (EE 127), Image Manipulation & Computational Photography (CS 194-26), Deep Learning (CS 294-131), Concepts of Probability (Stat 134), Time Series (Stat 153)

Experience

CS 61B Course Staff | Undergraduate Student Instructor | Jan 2018 - May 2018

20 hour Teaching assistant for course covering data structures.

CS 170 Course Staff | Undergraduate Student Instructor | Aug 2017 - Dec 2017

8 hour Teaching assistant for course covering algorithms ranging from graph theory, DP, and NP complete problems.

Citadel LLC | Software Engineer Intern | June 2017- Aug 2017

Part of the Equities Research team developing analysis tools for traders and researchers.

- Worked with React/Redux framework to develop time series visualization and analysis application. Worked on Flask execution service that built computation DAG to apply a series of functions to the set of time series. Implemented analysis panels (RSI, bollinger bands, MACD) on server and tied to client for visualization.
- Researched and implemented forecasting modules to produce out-of-sample predictions. Used combinations of ARIMA models and neural networks built using Keras and ran on market and transaction data.

Zendesk | Software Engineer Intern | May 2016 - Aug 2016

Member of the app optimization team spearheading high-priority Q3 project to improve app boot time.

- Developed Scala/Finatra microservice to improve app boot time and performance by building the DOM and inserting preloaded data and assets.
- Implemented performance enhancements leading to 4 times improvement in boot time using Scala Futures to make threaded requests to the API and then caching request data.

Ra Power Management | Software Engineer Intern | June 2015 - March 2016

Part of core team of 5 engineers to create a solar asset management Rails app for companies such as SolarCity.

- Decreased computation time for revenue projections from 20 minutes to 5 minutes by refactoring code and implementing Redis. Each data set projects a contract's revenue and expenses each month for 20 years and takes discounted cash flows to assess the value and risk of a fund containing over 1 million contracts.
 - Created a version control system for solar contract data that manages 100 million dollars of solar contracts. This included designing and implementing data model of funds, tranches, and contracts.
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Projects

March Madness Predictor | Logistic Regression model used to predict the Big Dance

- Developed model using regular season and tournament data to predict tournament games. Achieved 70% test accuracy and notably predicted 30/32 first round matchups in this years' tournament.
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Extracurriculars

Berkeley Engineers and Mentors | President | Aug 2014 - Present

- Led a group of peers to mentor at local elementary and middle schools in science and engineering and developed bi-weekly Ted-talk style presentations to improve mentoring skills.
- Spearheaded a redesign of the BEAM website to grow online presence and create corporate connections.
- Designed and tested innovative engineering lessons such as deconstructing e-waste and windmill design.

Capital Investments at Berkeley | Quantitative Research Analyst | Jan 2017 - Present

- Developed deep learning momentum model which achieved 30% backtested returns over a two year period.
- Used Pandas for data preprocessing, computing cumulative returns and then z-scores across the market as features.

Eta Kappa Nu (HKN), Mu Chapter (EECS Honor Society) | Computing Services Officer | Aug 2015 - Dec 2016

- Maintained HKN website which provides an exam database for CS students as well as scheduling tutoring hours for officers. Also hold weekly tutoring hours and review sessions for lower-division classes.
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Skills

Languages: Python, Scala, Java, Javascript | **Frameworks:** Finatra, React, Rails | **Technologies:** Pandas, Keras