Kevin Arifin

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Education

School: **University of California, Berkeley** | Overall GPA: **3.723**
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
Relevant Coursework: Algorithms & Intractable Problems (CS 170), Database Systems (CS 186), Artificial Intelligence (CS 188), Machine Learning (CS 189), Optimization Models in Engineering (EE 127), Concepts of Probability (Stat 134)

Experience

Citadel | Software Engineer Intern | June 2017- Aug 2017
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.
- Refactored large parts in Scala of backend boot logic, including building CSS color palette and loading javascripts.
- 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.
- Integrated project into production by setting up Docker and NGINX and deploying to Kubernetes.

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.
- Developed data modeling modules such as waterfall graphs to identify how many contracts were cancelled between initialization, funding, and development and heat maps to identify solar contract location.

CS 170 Course Staff | Reader | Aug 2016 - Present
Assist in tutoring and office hours as well as grade homeworks.

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.

Halfway | Mobile hybrid app with Rails backend API to help people plan events with friends
- Developed RESTful API with Rails using OAuth and Devise for user token authentication. Built event creation logic, user friendship data modeling, and group creation. Created frontend using Ionic Framework and implemented modern UI/UX, user and friend management interface, google maps integration, and image uploading.

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.

Skills

Programming Languages: Python, Scala, Ruby, Elixir, Java, Javascript, C, Swift
Frameworks: Rails, Finatra, Phoenix, Ionic, Sinatra
Technologies: Pandas, Git, LaTeX, Docker, Heroku, NGINX, SQL, NumPy, scikit-learn