Kevin Prabhakar

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EDUCATION

University of Southern California
Bachelor of Science in Business Administration
Minor in Computer Programming
Class of 2019

Relevant Coursework:
Professional C++
Data Structures and Algorithms
Discrete Mathematics for Computer Science
Deep Learning
Compiler Development
Communication Strategy in Business
Independent Software Project

Language Proficiency
Go, Python, JavaScript, C++, Java, Objective-C, HTML/CSS

Relevant Libraries/Patterns
Tensorflow, MongoDB, SQL, Kubernetes, Selenium, Teamcity, AWS, Pandas, Gradle, Bootstrap, JQuery, LLVM, IPFS

Github: https://github.com/kevinprabhakar
Website: https://kevinprabhakar.github.io

EXPERIENCE

Apptio Seattle, WA
Software Engineering Intern May 2018 – August 2018

Apptio is a SaaS B2B company that agglomerates multiple sources of company data to help C-Level Executives manage, plan, and optimize their technology investments across on-premises and cloud infrastructure.

- Built Kubernetes Pipeline to make deployments of Apptio's flagship product faster, more fault-tolerant, and more accessible for maintenance/upgrades
    - Built central Kubernetes server to handle API calls to deploy, delete, setup, scale, and upgrade custom deployments in any of Apptio's development or production clusters
    - Implemented large portions of Kubernetes Operator Framework. Enabled Custom Resource Definition Support for Kubernetes Pipeline.
    - Created Command Line interface so developers and testers could easily define custom server specifications and then immediately deploy, test, and autoscale those servers
    - Halved deploy time of Apptio's flagship product
- Contributed to unit, functional, and integration tests of Server, Operator and CLI

Paybee Inc. Palo Alto, CA
Software Engineering Intern May 2017 – August 2017

Paybee aims to digitize the means by which donors can make donations to non-profits, making it easier for them to capture the "moment of inspiration" that fuels donations.

- Implemented technical infrastructure for new fundraising campaign type that enables religious institutions to use Paybee as a source of revenue
- Created multi-time-zone fault-tolerant scheduler to set up recurring donations.
- Created front-end display and back-end logic for scheduling multi-transaction donations using a single, simple interface
- Wrote Unit and Functional tests for central servers

Financial Technology Research under Professor Jinchi Lv Los Angeles, CA
Research Assistant January 2017 – Present

Jinchi Lv Ph.D. is an award-winning Data Science professor and research at the USC Marshall School of Business. His research interests include deep learning, high-dimensional statistics, big data problems and statistical machine learning.

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- Researching, Programming, and Innovating on applications of Machine Learning to the Financial Sector
    - Data-Driven approach to Portfolio Diversification via Autoencoder Neural Networks
    - Stock Prediction via Recurrent and Artificial Neural Nets
    - Sentiment Analysis of Twitter Data achieved via Principal Component Analysis, Data Clustering Techniques, Word/Document Embeddings, Recurrent Neural Nets
- Experience implementing and improving upon deep learning models from financial technology papers using Tensorflow and Keras -- https://github.com/kevinprabhakar/deepLearningResearch

Miscellaneous Projects (Viewable on Github) August 2015 – Present

Out of my own interest and because of my coursework, I've had the opportunity to build several different applications and projects. Some of these include:

- Real-Time Financial Exchange that allows users to buy/sell financial derivatives
- P2P Application that can train large neural networks over large datasets in a fraction of the time, distributed across multiple computers
- "The One Percent Project" is a web application in which you set a goal for yourself, and then choose people in your life to hold you accountable for daily progress towards your goal. On days where you do not submit a daily progress report, the application will email blast all your friends so they can help get you back on track
- I have written a chess engine with Alpha-Beta Pruning, capable of looking anywhere from 4-10 moves ahead of a human being
- I have developed a Linear Algebra simulation that will rank NCAA college football teams from a purely mathematical/data-oriented perspective. It can account for various tiers of the NCAA structure, and also accounts for teams that play games outside of the NCAA structure altogether
- Python script that manipulates recreation.gov to book last minute campsites in heavily trafficked national parks