MICHELLE LEE

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Ambitious Data Scientist looking to transition into **Software Engineering** roles while also pursuing a B.S. in **Computer Science** on the side. Capable of object-oriented design, algorithmic problem-solving, and machine learning techniques with years of programming skills in Java, Python, and others. I believe I have the qualifications and passion to thrive as a Software Engineer.

EDUCATION & RELEVANT COURSES

University of California, Santa Barbara   September 2013 – June 2016
B.S. Financial Math & Statistics
- Intro to CS, Problem Solving in CS, SAS Programming, R Programming, Stochastic Processes, Regression Analysis, Calculus, Vector Calculus, Linear Algebra, Differential Eq., Partial Differential Equations, Fourier Series, and more

University of California, Berkeley
- Data Structures in Java (CS 61B), Discrete Math (CS 70)

Stanford (Coursera) | Duke (Coursera) | Harvard Business School x Uber | Udemy
- Machine Learning, Algorithms Specialization, Java Programming, Object Oriented Programming in Java, Executive Leadership, Python for Data Science & Machine Learning, Data Analytics with R

SKILLS

Programming Languages: Java, Python, R, SQL, Matlab, SAS, HTML/CSS, JavaScript
DS Tools: Pandas, Numpy, Matplotlib, Tensorflow, Keras, Scikit-Learn, SciPy, Seaborn; ggplot, Shiny, reshape2, dplyr

EXPERIENCE

Tecolote Research Inc. | Data Scientist   November 2019 – May 2020
- Created tools on our online data science and machine learning platform for multivariate exploration such as interactive correlation/scatterplot matrices, density-based clustering, and performed various app improvements/bug fixes
- Performed PCA (principle component analysis) and regression techniques in R to create a new model for space vehicle schedules (for DoD contractors) that outperformed existing model
- Cleaned, explored, analyzed, and visualized satellite data with R and Python, using statistical techniques such as data transformations, t-testing, data normalization, and many others

American Savings Bank | Sales Performance Analyst   April 2018 – December 2018
- Built SQL scripts for Business Banking growth and production to efficiently track over $240 million
- Provided in-depth performance insights/trends for Business Banking & Home Loans, driving growth and reconstruction

Uber Technologies Inc – Xchange Leasing | Business Support Manager for Data Analytics   July 2017 – December 2017
- Created KPI dashboards for 10+ teams and presented to senior leadership and director during Monthly Business Reviews
- Used R to explore and analyze patterns in vehicle activity to identify marketing opportunities as well as potential issues
- Validated company-wide data migration using SQL to check for compromised data and discrepancies

Uber Technologies Inc – Xchange Leasing | Data Analyst (Insurance)   November 2016 – July 2017
- Integrated new methods of reporting (MAQL & SQL), building 200+ reports, allowing managers insight into workflow
- Created part of a web-based platform in R (Shiny App) to provide dashboards for insightful trend reporting/visualizations

PROJECTS

Shortest Pathfinding Visualizer | Java
- Built an A* Pathfinding visualizer which efficiently finds the shortest path (if one exists) between two points
- Implemented a min heap to perform Best First Search using heuristic cost functions
- Created GUI/animation with Swing and AWT, and experimented with other extra visual effects

CoinTools | JavaScript (Ongoing)
- Building Chrome extension that alerts the user when Bitcoin (and several other altcoins) meets a desired price point/range
- Utilize Coinbase Pro's API to extract real-time market data from their websocket feed

Real Estate Valuation Project | Python
- Cleaned, explored, and analyzed a real estate dataset to assess relationships of house features with market price of houses
- Implemented correlation heatmaps, scatter/boxplots, and more to analyze relationships and identify multicollinearity