

# Taha Monfared

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## OBJECTIVE

To obtain an internship data science position within an advanced analytical team, where I can implement my education and goal-oriented personality to achieve solutions to real world statistical and big data problems, while learning about industry standards, company virtues and practical complexities.

## EDUCATION

**M.S. Statistics**, California State University, Fullerton, GPA: 3.95 2015–Expected Aug. 2017

- \* Courses include Computational Statistics, Categorical Data Analysis, Bayesian Statistics, Multivariate Analysis, Applied Biostatistics
- \* Conducting research on Bayesian non parametric survival analysis, focused on mean residual life function with Drichlet prior

**Mater of Marketing and E-Commerce**, Lulea University of Technology, Lulea, Sweden 2006–2009

**B.E. Industrial Engineering**, Amir-Kabir University of Technology, Tehran, Iran 2001–2006

## WORK EXPERIENCE

**Research/Graduate Assistant**, CSU Fullerton Office of Graduate Studies Since Nov. 2015

- \* Produce exploratory data analysis and predictive modeling on CSUF graduate students' educational performance for use in academic reports; focused on underrepresented ethnicities.
- \* Methodologies and processes used include data visualization using ggplots in R and PivotCharts in Excel, ordinal nonlinear regression, logistics regression, random forest, google maps geocoding API, NoSQL JSON datasets, and VBA and R codes to clean data.
- \* Tutor an average of 20 graduate students monthly on statistics and collaborate on their thesis research problems.

**Stock Market Analyst**, Tadbirgaran Investment Institute 2007–2014

- \* Reported to chief financial officer.
- \* Produced data gathering, data management, and portfolio management software using SQL, Visual Basics for Office Applications (VBA), Access, Excel and Matlab.
- \* Developed custom indicators, and automated trading systems using Equis Metastock.
- \* Managed portfolios valued more than \$1M with above 150% return on investment.
- \* Consulted Karafarin Bank on data integration project

## HONORS AND AFFILIATIONS

American Statistical Association Since Jan. 2017

President and founder of NSM data science student club Since Dec. 2016

Winner of non-resident tuition waiver award Since Sep. 2015

Golden Key Honor Society Since May 2014

Founding member of CSU East Bay data science group Jan. 2014–June 2015

## SKILLS

- Experience with machine learning methodologies
  - \* PCA, PCR, factor analysis, regularization, decision trees, classification (random forest, LDA, QDA, KNN), clustering (k-means, hierarchical, mixture models), regression (linear, nonlinear, multivariate, ridge, LASSO, logistics, ordinal), loglin models, survival analysis
- Extensive Programming experience using R and google and twitter APIs
  - \* Programs coded include EM algorithm, optimization algorithms (Newton, quasi-Newton, Fisher-scoring, secant), sentiment analysis, Monte Carlo integration, MCMC algorithms (Gibbs sampling, Metropolis-Hastings), bootstrapping, Naïve Bayes, word cloud
- Proficient with SQL, SPSS, SAS, Python, Minitab, Linux/bash, Microsoft Office Suite, Markdown, ggplot2, tidyr, dplyr, scikit-learn, LaTeX, jekyll, Git, Github
- Familiar with Tableau, AMOS, Hadoop, Hive, Matlab, JSON, NoSQL, mixed effect models