Contact

www.linkedin.com/in/caleb-s
(LinkedIn)
sturgesforcongress.com
(Company)

Top Skills

Statistics

Research

Economics

Certifications

Certified Wolfram Technology
Associate

Caleb Sturges

Data Scientist at Car Company
Huntington Beach, California

Summary

Technical Skills: Data Mining, Database Administration, Machine
Learning, Econometrics, Statistics (6 courses)
Computational Skills:
-Software: MySQL, SQL Server, Visual Studio
-Analysis: MATLAB, R, SAS, SQL
-Languages: C#, Java, Python, Wolfram Language (Mathematica
Certified)

Experience

Car Company
Data Scientist
July 2019 - Present (9 months)
Orange County, California Area

Nativo Inc
Data Scientist
December 2017 - April 2019 (1 year 5 months)
Greater Los Angeles Area

▪ Built forecasting models to predict online advertising click rates, fill rates and
inventory in Python
▪ Improved Amazon S3 and Druid (database) Big Data pipelines in Java,
Scala and Apache Spark
▪ Advised on AdTech Auction Design and Real Time Bidding

The Seasteading Institute
Economist
February 2016 - February 2019 (3 years 1 month)
Greater Los Angeles Area

On a part time basis:
▪ Helped perform the Economic Impact Analysis for the Floating Island Project
in French Polynesia
▪ Advised on economic feasibility of seaastead projects
▪ Built economic models in Python and R

Toyota North America
Sr. Economic Capital Analyst
July 2016 - November 2017 (1 year 5 months)
Greater Los Angeles Area

▪ Programmed Economic Capital models that estimated reserve capital required to survive over a 3000-year financial stress scenarios for Toyota's $100 billion portfolio in R
▪ Translated and validated EC (Value at Risk) models between Wolfram Mathematica, R and SAS
▪ Optimized R EC model to 100 times original speed, reducing simulation time from days to hours
▪ Built Excel VBA GUI for EC model that simulated loss, validated input and processed data;
VBA called SAS, R, Hyperion Essbase, sasServer automating tasks that took months for a Sr. Financial Analyst
▪ Forecast future asset, credit and residual value returns as part of broader Quantitative Risk Analysis

Economic Science Institute
4 years 7 months

Research Analyst
May 2014 - July 2016 (2 years 3 months)
Orange County, California Area

▪ Designed 12 human-subject economic experiments costing over $7000
▪ Programmed experiments in C#, using SQL Server and MySQL, and analyzed data in Python
▪ Built economic models of iOS mobile app industry using time series and data mining
▪ Developed machine learning solutions for human subject based experimental auction research
▪ Performed hypothesis tests, ANOVA and non-parametric tests between treatment and control groups
▪ Solved Bayesian Nash Equilibrium Bid Functions using numerical differential equations and genetic algorithms

Office of Undergraduate Research - Summer Research Fellow
May 2014 - September 2014 (5 months)
Orange County, California Area

▪ Conducted 5, 36-human-subject voting experiments costing over $2000

▪ Programmed over 100,000 lines of code in C# & C++ and analyzed data in Excel & R
▪ Published A Two Party System By Design: Testing The Mechanism of Plurality Rule

Office of Research - Database Developer
January 2012 - May 2014 (2 years 5 months)
Orange, California

Administered database of $10,000,000 in research budgets, contracts and grants
Constructed database in Access from Excel data, then transferred data to Oracle database
Analyzed research database using self-designed macros, queries and reports

Wolfram Research
Graduate Researcher
June 2015 - August 2015 (3 months)
Greater Boston Area

▪ Learned fundamental aspects computational modeling and programming in Wolfram Language
▪ Attended Research Seminars conducted by Stephen Wolfram
▪ Built economic models of iOS mobile app industry using time series and data mining

City of Chicago
Law Department - Legal Intern
May 2011 - August 2011 (4 months)
Chicago, IL

Managed legal database, filed and delivered 1000's of confidential court documents
Organized, updated and cataloged 10,000 page Chicago legal codex
Provided clerical and analytic assistance to 12 lawyers in court

As part of the Chicago Summer Business Institute, a city of Chicago sponsored program to help High School students find meaningful work experience

State Sen Toi Hutchensen Election Campaign
Campaign Field Organizer
May 2010 - November 2010 (7 months)
Chicago Heights, Ill

\#   Canvased 1000's of prospective voters by calling and going door to door

\# Recruited, organized and led 100's of volunteers for canvasing, parades and fundraisers

\#   Updated and edited campaign website and senator's web page

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Education

Chapman University

Master of Science (M.S.), Economic Systems Design · (2015 - 2016)

Chapman University

Bachelor of Arts (B.A.), Economics, Political Science; Minor: Mathematics · (2011 - 2015)