

CHRIS RAHN

DATA SCIENTIST

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in chris-rahn 🌐 ChrisRahn

SUMMARY

Data scientist with five years' experience in statistical data analysis and modeling, data visualization, programming, hierarchical systems analysis, and risk management. Expertise in Bayesian inference analysis, database management (including SQL), and advanced technical writing.

SKILLS

DATA ANALYSIS: Statistical Data Analysis, Probabilistic Modeling, Data Processing and Presentation, Bayesian Inference, Applied Statistics, ANOVA, Fault Tree Analysis, Hypothesis Testing, Machine Learning
MARKETING: Survey Design and Analysis, Design of Experiments, Market Research
PROGRAMMING: Advanced MS Excel, MS Access, SQL and Relational Databases, Python (inc. pandas), MATLAB, Tableau, R, SAS / SPSS

PROJECTS

Reliability, Availability, & Maintainability Modeling Mar. 2018 to Nov. 2018

Developed a novel method to assess the reliability, availability, and maintainability of a gamma ray simulator designed by L-3 Applied Technologies. The assessment blended several techniques to synthesize component failure data into a Monte Carlo state machine model used estimate the machine's future performance.

Fire Probabilistic Risk Analyses

Mar. 2014 to Nov. 2018

Developed multiple large-scale, multi-year fire risk analyses for several Exelon commercial nuclear power plants. These extensive projects required many engineering and data science skills, particularly database management, importance and dependency analysis, and statistical data processing.

Marketing Research and Design

Apr. 2013 to June 2013

Advised development of a marketing product for First Republic Bank. Through research, I was able to construct a model to quantify the abstract concept of "innovation" of Bay Area companies used to advertise business loans.

EMPLOYMENT

Data Analyst / Nuclear Engineer JENSEN HUGHES

Campbell, CA
June 2013 to Nov. 2018

Five years nuclear utility data analysis, risk management, probabilistic risk assessment, statistics, detailed hierarchical systems analysis, logic modeling, fault and event tree development, and engineering calculations for fire and seismic risk modeling.

- Built and maintained predictive fault tree models to discover weaknesses in client risk profiles and recommend improvements
- Advised corporate and engineering decision-making through both formal evaluations and ad-hoc data insights
- Processed statistical data to incorporate historical evidence into models and forecast future risk movements
- Maintained, validated, and updated large-scale SQL databases using queries and macros
- Wrote highly technical reports and notebooks to document modeling methodology, assumptions, and conclusions

Marketing Data Analyst Direct Marketing Research Associates

Mountain View, CA
Apr. 2013 to June 2013

Marketing data analysis and research support for a major national client, First Republic Bank.

EDUCATION

University of California - Berkeley
B.S. Chemical Engineering