

DANIEL SURYAKUSUMA

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EDUCATION

University of California, Berkeley | Berkeley, CA
B.A. Applied Mathematics | May 2020
Major GPA: 3.46/4.00

University of California, Berkeley – Extension | Berkeley, CA
C.P. Certificate Program in Paralegal Studies | Awarded Jan 2017

ACTUARIAL EXAMS

Exam P/1: Passed | Jul 2017
Exam FM/2: Passed | Oct 2017
Exam IFM/3: Sitting | Mar 2020

TECHNICAL SKILLS

MS Excel {advanced} + VBA {experienced} | SQL {experienced} : MySQL / PostgreSQL / MS Access
R : RStudio {advanced} | Python {experienced} | MATLAB {advanced} | Web : {experienced} JS / HTML / CSS | LaTeX {advanced}

TECHNICAL PROJECTS

Cal Actuarial League Case Competition: Property & Casualty, General Analytics | (dsury.com/case-competition-fall-2019)

- Presented end-to-end business solution, driving and interpreting a Tweedie GLM to categorize PPA driver risk classifications and form UW guidelines to optimize an insurer's risk appetite within California's Proposition 103 regulatory framework
- Demonstrated difference between loss and ALAE trends with Markov Chain Monte Carlo simulations for rate indication

Insuring Against Going Viral: Life Expectancy on Spotify Top Charts | (dsury.com/bohemian-rhapsody)

- Quantified interaction effect between fixed subscription premiums and royalty payment losses for viral songs
- Integrated R's libraries and PostgreSQL database to automatically web scrape and analyze data into KPI dashboards to infer up-to-date trends for consumer behavior, seasonality, and virality
- Applied basic actuarial concepts (IBNR, Monte Carlo, seasonality) to predict loss due to royalty payments

Livetype TeX Library (GitHub Atom, Open-Source) | (dsury.com/tex)

- Built a customizable .cson library for code completion and error correction, enabling real-time rapid typesetting of precise technical notes (math, diagrams, code) in a lecture setting with integration of GitHub Atom packages and libraries
- Volunteered under UC Berkeley Statistics professor Jim Pitman as scribe for Stochastic Processes (150.dsury.com)

The Infinite Actuary: Technical Skills Course | (dsury.com/projects)

- Built a MS Access database for an electronics company featuring different products and brands for warranty sales and loss, and queried data to generate summary KPI dashboards in Excel
 - Constructed a simple life insurance pricing model based on IRS prescribed mortality tables and various defined benefit plans
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PROFESSIONAL EXPERIENCE

Berkeley Center for Law & Technology | UC Berkeley School of Law, Berkeley, CA | Oct 2013 – May 2015

Web Development Lead, Administrative Assistant

- Synthesized 500+ business account data sets into relational databases, integrating Salesforce API for queries and key insights
- Tailored web solutions for Berkeley Law faculty, streamlining logistics and web communications for conferences and symposiums

Berkeley Technology Review | berkeleytechreview.com | Sep 2014 – May 2015

Contributing Editor, Web Developer

- Created and published articles on privacy, copyright law, and disruptive technologies
 - Integrated web application platforms into a single intuitive and reactive user interface, built from Drupal, Nodejs
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