

B/T Brian Tran

Software Engineer & Actuarial Analyst



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ABOUT ME

I am an experienced Actuarial Analyst with a passion for software engineering. Proficient in Python, Java, R, SQL, VBA, and more, I specialize in automating tasks, optimizing processes, and delivering impactful solutions.

With expertise in building scalable webservices, designing robust APIs, and implementing quality assurance practices, I bring a software engineering mindset to every project. Collaboration, innovation, and continuous improvement drive my approach as I deliver efficient solutions.

EDUCATION

B.S. Applied Mathematics

California State University Polytechnic, Pomona
Magna Cum Laude, GPA: 3.77
President's List 2015-2016

CURRENT

PROJECTS

Ultimate Tic Tac Toe (Python)

• <https://github.com/exobrian/UltimateTicTacToe>

BlackJack (Java)

• <https://github.com/exobrian/BlackJack>

Wordy Words (JavaScript)

• <https://github.com/exobrian/wordy-words>

Reservation Sytem (Java Spring Boot)

• <https://github.com/exobrian/ReservationSystem>

WORK EXPERIENCE

Software Engineer I

ICW Group / San Diego, CA / January 2021 - Present

Unique volunteer arrangement to leverage my technical skills and expertise to design, develop, and maintain software applications, with a focus on building webservices, APIs, and efficient solutions.

- Contribute to the ongoing redesign and implementation of the workers compensation pricing application using Java and Spring Boot.
- Develop a Python API to fetch, transform, and process XMLs, enabling seamless integration with the pricing application and other services.
- Design and develop an application to extract, transform, and upload data from summary report excel files to a SQL database.
- Develop and execute thorough test cases for quality assurance, including user acceptance testing.

Intermediate Actuarial Analyst

ICW Group / San Diego, CA / June 2016 - Present

Utilize mathematical modeling and analytical techniques to estimate and manage risks. Specializing in workers compensation pricing, I build mathematical models, analyzing data, and provide insights to support informed decision-making.

- Automate data exploration, transforming, uploading, and manipulation tasks using VBA, R, SQL, Python, Shell Scripts, Ansible, and other tools.
- Build machine learning models to predict future losses, expenses, and premium.
- Conduct actuarial analyses on loss forecasting, credibility weighting, territorial segmentation, and other studies to offer competitive and accurate prices.
- Train junior analysts in developing backend pricing applications, lead monthly pricing release deployments, utilizing Git to manage code base, and more.

SKILLS & TECHNOLOGIES

