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

RELEVANT 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

Hybrid work opportunity allows me to leverage my technical skills and expertise to design, develop, and maintain software applications, with a focus on building webservices, APIs, and efficient solutions.

- Develop a Python API to fetch, transform, and process XMLs, enabling seamless integration with the pricing application and other services.
- Design and develop applications 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.
- Contribute to the ongoing redesign and implementation of the workers compensation pricing application using Java and Spring Boot.
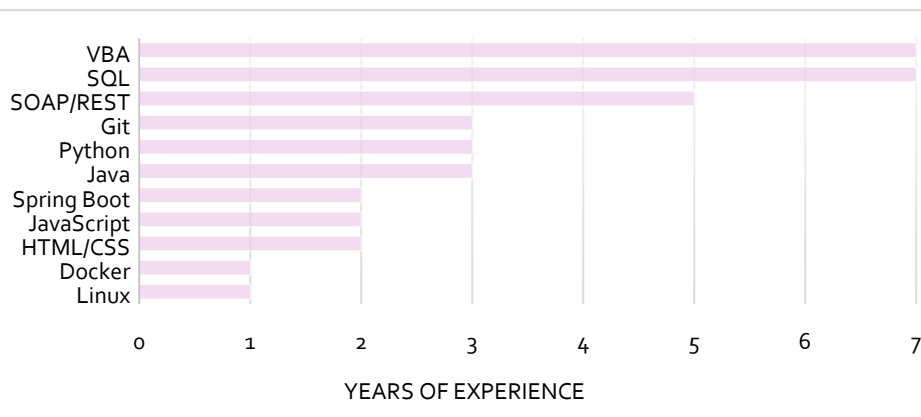
Intermediate Actuarial Analyst
ICW Group / San Diego, CA / June 2016 - Present

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

Bar chart of YEARS OF EXPERIENCE:
- VBA: 7
- SQL: 7
- SOAP/REST: 5
- Git: 3
- Python: 3
- Java: 3
- Spring Boot: 2
- JavaScript: 2
- HTML/CSS: 2
- Docker: 1
- Linux: 1

Java; Python; JavaScript; SQL (e.g., MSSQL, MySQL); HTML; CSS; Back-end frameworks (e.g., Flask, Spring Boot); Agile software development; Git/GitHub; RESTful APIs; SOAP APIs; Cloud computing (e.g., AWS EC2); Unit Testing (e.g., JUnit); Object-oriented programming (OOP); JIRA; Containerization (e.g., Docker); Python Data Analysis (e.g., Pandas, Scikit-learn); XML; JSON; Problem-solving and critical thinking