Randall Le

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EDUCATION

B.S. Mathematics/Economics **University of Southern California** **May 2022**

- **Minors**: Computer Programming Minor, Applied Analytics Specialization. **GPA**: 3.94/4.00
- **Courses**: Object-Oriented Programming, Data Analytics, Data Structures & Algorithms, Full-Stack Web Development, iOS App Development, Applications of Machine Learning

SKILLS

Python | C++ | Java | Swift | JavaScript | PHP | SQL | NoSQL | HTML | CSS | React | RESTful APIs | Git | Postman | Tableau | Jupyter Notebook | Atlassian Jira | Agile Development | Sprint Planning | Wireframes | Information Architecture | Model-View-Controller (MVC) | Object-Oriented Programming (OOP) | WordPress

PROFESSIONAL EXPERIENCE

Teaching Assistant **USC Viterbi School of Engineering** **August 2019 – May 2022**

- Supervise Python lab sections, debug, and review student projects for a course of 70 students
- Lead discussions on foundations of objected-oriented programming, data structures, and algorithms

Intern **Capital Insurance Group** **June 2021 – August 2021**

- Developed Python script using Pandas and NumPy to retrieve policy data from SQL to price thousands of policies, which reduced the total runtime of a farmowners insurance pricing tool by 40%
- Refactored and improved Python scripts for homeowners insurance application to incorporate coverage rating features and fine-tuning mechanisms
- Built Tableau dashboard from SQL and Excel data to present a competitive analysis on homeowners rating factors

Intern **Milliman** **January 2021 – June 2021**

- Updated the exception tier handling logic and wrote unit tests for Python codebase to maintain compliance with current healthcare regulations, saving consumers up to 90% of prescription costs
- Developed a dynamic pricing model using Python and Excel to conduct a cost-savings analysis, which resulted in a 23% savings in total expenditure
- Supported an agile team of six developers and two-week sprints using Git and Jira

Intern **GE Capital** **September 2020 – January 2021**

- Developed a validation tool using Excel, VBA, and SQL to confirm results of current pricing models for long-term care insurance, increasing profits by 20% from pricing errors that were detected
- Assisted with efforts in projecting financial results and sensitivity analysis by recommending solutions according to current social trends, health trends, and business goals, increasing revenue by 24%

PROJECTS

Reddit Mission Control – *HTML, CSS, JavaScript, PHP, SQL, Bootstrap, Postman*

- A tool with CRUD (create, read, update, & delete) functionalities to manage, categorize, and view details about user's saved posts using the Reddit API to populate a SQL database upon Basic Auth authentication
- Developed wireframes and basic mockups to be responsive on desktop, tablets, and mobile devices
- Created user stories and user journeys to map out application functionality
- Save or unsave a post, search by title, filter by subreddit, add or update a tag, optimized for mobile users

Weather.info – *Swift, UIKit*

- An iOS app made with Swift and UIKit that displays the weather and image according to the user's current location
- Features local data persistence and internationalization to support both English and Spanish
- Retrieves weather information via OpenWeather API and integrates images from Unsplash API

Spotify-Genius Lyric Search Tool – *Python*

- A search engine for users to search through the lyrics of the songs in their library using the Spotify and Genius API
- Developing a feature to give users the ability to tag songs with one or more key terms