Michel Robert

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Website: Michel Robert

Summary of Qualifications

- Computer Science graduate with strong foundations in Java, Python, HTML, CSS, Javascript, data structures and algorithms
- Experience building webpages via Free Code Camps full stack developer curriculum
- Professional background debugging, reviewing and correcting production level code
- Comfortable working with complex logic, edge cases and performance considerations

Education

Bachelor of Science in Computer Science, Minor in Mathematics **2023**
The University of New Mexico (UNM) Albuquerque, NM

- Relevant Course Work: Data Structures and Algorithms I and II, Design of Large Programs, Software Engineering, Introduction to AI, Computer Logic Design, Operating Systems Principles, Big Data, Computational Fabrication, Introduction to Numerical Computing
- Honors:
    - Graduated Cum Laude - GPA 3.61

Professional Experience

AI Data Trainer (Software & ML Systems) **January 2024 - Present**
DataAnnotation Remote

- Analyzed, debugged and corrected Java, Python, HTML(CSS) and Javascript code generated by machine learning models
- Identified logical, performance, and syntax errors across diverse codebases
- Provided structured feedback to improve model accuracy on coding tasks
- Worked across multiple projects requiring rapid context switching and adherence to strict quality metrics
- Consistently met deadlines in fully remote, self-directed environment

Projects

GitHub · Portfolio Website

Scrabble Solver (Java):

Github: https://github.com/mrobert12/Scrabble_solver

- Designed and implemented a Java-based Scrabble solver to compute the highest-scoring move given an arbitrary board state and tile rack
- Built an efficient Trie (prefix tree) data structure to store and query a large dictionary enabling fast word validation and pruning.
- Implemented board-scanning and scoring algorithms to evaluate all legal word placements while respecting Scrabble rules.

Calculator Android App (Java):

Github: https://github.com/mrobert12/Calculator-app

- Developed an Android calculator application in Java supporting standard arithmetic operations with responsive UI and input history tracking
- Implemented custom postfix expression evaluation to correctly handle operator precedence
- Added real-time expression evaluation and live result previews as users type input

Home Field Advantage, Big Data Analysis (Python):

Research paper: PDF Download available on my webpage

- Prepared, cleaned and merged large real-world datasets using Python and Pandas to support advanced statistical analysis
- Applied machine learning techniques using scikit-learn to identify patterns and quantify the impact of home-field advantage
- Visualized results using Matplotlib and NumPy, and authored a research paper summarizing findings and methodology

Computational Fabrication Projects (Python):

Github: https://github.com/mrobert12/CS_491_Comp_Fabrication

- Developed Python scripts within Grasshopper Rhino to generate parametric designs for computational fabrication
- Applied mathematical models and algorithmic logic to design 3D-printable physical objects
- Produced and validated designs through 3D printing, bridging software and physical systems