Randy Pham

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EDUCATION

University of California, Riverside — Jun 2025
B.S in Computer Science | GPA: 3.05 — *Riverside, CA*

Relevant Courses: Data Structures and Algorithms, Operating Systems, Databases, Machine Learning, Artificial Intelligence, Software Testing, Software Construction, Information Retrieval

TECHNICAL SKILLS

Programming Languages: Python, C++, Java, SQL, JavaScript, HTML, CSS
Tools/Frameworks: Git, VS Code, GTest, CMake, Slack, PostgreSQL, Spark
Libraries: Pandas, NumPy, Matplotlib, SciKit
Development Practices: Agile (Scrum), CI/CD, Version Control, Code Review, Unit Testing, Schema Design

PROJECTS

Feature Selection Optimizer | *Python, Git* — Jan 2025 – Mar 2025
- Developed a C++ program implementing Forward Selection and Backward Elimination, estimating game movements with Euclidean Distance and Leave one out cross validation, identifying optimal feature subsets in classification tasks
- Achieved up to 96.2% classification accuracy on small datasets and 76.6% on large datasets utilizing iterative subset evaluation and accuracy tracking

Eight Tile Puzzle Solver | *C++, Git* — Jan 2025 – Feb 2025
- Designed an AI-driven solver for the classic eight tile sliding puzzle, optimizing with heuristic search algorithms like: A*, Manhattan Distance, and Misplaced Tiles refining game paths
- Implemented backtracking to reconstruct the solution path, allowing users to trace the sequence of optimal moves from the initial state to the solved configuration

Movie Recommender System | *C++, Git* — Sep 2023 – Dec 2023
- Implemented Google Tests and CMake framework, testing code for 90% coverage ensuring recommender is reliabilty and performing with no discrepancies
- Integrated database containing 100+ movie titles and user ratings, ensuring dynamic updating of recommendations, enhancing UI interactions

EXPERIENCE

Cutie Hackathon — Nov 2023
Participant — *Riverside, CA*
- Facilitated collaboration by on boarding team members to GitHub, managing version control and resolving merge conflicts to maintain development velocity
- Synthesized diverse project ideas into a cohesive technical scope, ensuring alignment on feature prioritization and responsibilities across front end and back end roles

Lexus of Stevens Creek — Dec 2021 – Aug 2023
Valet Driver — *San Jose, CA*
- Optimized dealership operations, by orchestrating intake and delivery of 15+ customer vehicles, minimizing service bottlenecks
- Coordinated in parallel with sales representatives and managers, aligning with customer transactions, improving queue times
- Demonstrated professionalism under high volume environment, directly through efficient customer service, while maintaining seamless logistical flow