

Tayvin Nguyen

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EDUCATION

University of California, Riverside, Riverside, CA

Expected - June 2025

B.S. Computer Science

Cumulative GPA: 3.70

Coursework: Algorithm Engineering, Artificial Intelligence, Automata and Formal Languages, Compiler Design, Data Structures and Algorithms, Database Management Systems, Design and Architecture of Computer Systems, Design of Operating Systems, Differential Equations, Discrete Structures, Information Retrieval, Linear Algebra, Logic Design, Optimization, and Software Construction

EXPERIENCE

Test Engineer Intern

September 2022 - May 2023

Esperanto Technologies - Mountain View, CA

- Optimized efficiency by developing Python scripts for data handling and parsing, leveraging libraries like Tkinter, Matplotlib, and Argparse.
- Managed and monitored error handling processes and conducted comprehensive inventory oversight for nearly a hundred advanced AI chips daily, ensuring operational accuracy and system integrity.
- Authored and structured detailed procedural articles on multi-machine handling operations, providing clear instructions and facilitating the implementation of scripts to enhance company workflows.

PROJECTS

Movie Recommendation System - C++

- Developed and engineered a C++-based movie recommendation system, enabling users to efficiently filter through a comprehensive movie database using multiple criteria.
- Designed and executed unit tests for all functions across classes, ensuring robust and reliable code in alignment with Agile methodologies.
- Coordinated with a team of three to manage weekly scrum meetings, maintain Kanban boards, and implement Agile project management practices for streamlined development.

Pizza Delivery Application - Java

- Developed a full-featured food ordering system using PostgreSQL, enabling users to browse menus, place and track orders, and manage profiles, while providing managers with tools to edit menus, update user accounts, and oversee order status.
- Implemented robust database logic for user authentication, role-based access, and order management, ensuring secure and efficient interactions across all platform functionalities.

Feature Subset Evaluator - Python

- Implemented a C++ feature selection tool using forward selection and backward elimination with leave-one-out cross-validation and nearest neighbor classification to evaluate feature subset accuracy on custom datasets.
- Built a robust CLI interface for dataset input and algorithm selection, optimized for performance using efficient vector operations and runtime tracking via chrono.

SKILLS

Technical: Proficiency in Word, Excel, Adobe Illustrator, and Photoshop

Programming Languages: C++, Python, Java, x86 Assembly, LC-3 Assembly, SQL

Technologies: Argparse, Git, Tkinter, Matplotlib