

Kevin Pierce Chan Ramos

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BACHELOR OF SCIENCE (B.S.) IN COMPUTER SCIENCE

University of Nevada, Las Vegas, Graduation: Spring, 2025

SUMMARY

Detail-oriented Computer Science graduate with a robust foundation in full-stack development, object-oriented programming, and collaborative software engineering. Demonstrated ability to lead and contribute to complex projects, such as EulogyQuest, utilizing technologies like React, Node.js, and Docker. Committed to continuous learning and delivering high-quality, scalable solutions.

EXPERIENCE

Espresso Compiler (Java, JFlex, CUP) | Aug 2024 - Nov 2024

- Developed a compiler for a Java-like language, implementing lexical analysis, parsing, type checking, and modifier validation.
- Utilized JFlex & CUP for tokenizing and parsing, implementing AST construction and symbol table management.
- Applied visitor pattern for semantic analysis and type inference.

EulogyQuest – Full-Stack Memorialization Platform (UNLV CS 472/672 Capstone Project) | Jan 2025 - May 2025

- Collaborated in a team of 10 to develop a web-based platform that honors deceased players in online games through personalized AI-generated quests.
- Implemented front-end components using React, ensuring responsive and intuitive user interfaces.
- Developed back-end services with Node.js and Express, handling data processing and API integrations.
- Utilized Docker for containerization, streamlining deployment and development workflows.
- Managed version control and collaborative coding practices using Git and GitHub.

GitHub Profile Analyzer (Python, Flask, GitHub API) | Feb 2025 | Personal Project

- Developed a Flask-based API that fetches and analyzes GitHub user data using the GitHub API.
- Designed structured JSON responses to provide insights into repositories, contributions, and activity trends.
- Useful for developers, recruiters, and data analysts looking to assess GitHub activity programmatically.

Password Strength Checker (Python) | Sep 2024 | Personal Project

- Created a password validation tool that checks entropy, length, and complexity requirements.

- Implemented real-time strength analysis using regular expressions and entropy calculations.

Heart Disease Prediction (Python, Machine Learning) | Nov 2024

- Built an insurance risk assessment model using logistic regression & random forests for heart disease prediction.
- Evaluated model performance using ROC-AUC and optimized hyperparameters for better classification accuracy.

Traffic Simulator (C, Pthreads) | Oct 2024

- Simulated multi-threaded traffic intersections using Pthreads to model car movement and synchronization.
- Implemented mutex locks and semaphores to prevent deadlocks in a concurrent system.

Iris Dataset Classification (Python, KNN) | Oct 2024

- Implemented K-Nearest Neighbors (KNN) for classification of the Iris dataset, performing feature scaling and hyperparameter tuning.
- Evaluated model accuracy through cross-validation and manual accuracy calculations.

Game of Nim (C++) | Sep 2024

- Developed an interactive AI-based strategy game where players compete against a computer in a game of Nim.
- Implemented minimax strategy to enable the computer to make optimal moves.

SQL Database Project | Oct 2024

- Designed and optimized SQL queries for relational databases, improving efficiency and reducing execution time.
- Implemented joins, aggregations, and subqueries for data retrieval in an academic dataset.

Vector Operations (C++) | Nov 2024

- Implemented 1D and 2D vector manipulations, including file I/O, transformations, and nested iteration.
- Used algorithmic optimizations to improve runtime efficiency.

RELEVANT WORK EXPERIENCE

Amazon Warehouse Associate | 12300 Bermuda Rd, Henderson, 89044, NV | March 2021 - November 2022

- Operated handheld devices and internal systems to track inventory, monitor stock levels, and ensure order accuracy.
- Picked, packed, and labeled shipments efficiently, maintaining quality control and meeting strict fulfillment deadlines.
- Conducted regular audits and inspections, helping uncover and resolve inventory discrepancies.
- Collaborated in a fast-paced logistics environment, demonstrating adaptability, attention to detail, and strong communication.
- Maintained a clean and hazard-free workspace by following safety procedures and organizational protocols.

CERTIFICATIONS & COURSEWORK

- **Certifications:**
 - Introduction to Meta Back-End Development (Coursera)
 - AWS Cloud Foundations (AWS)
- **Relevant Courses:** Operating Systems, Compiler Construction, Machine Learning, Databases, Computer Networks

TECHNICAL SKILLS

- **Programming Languages:** C++, Python, Java, SQL, Bash, HTML, CSS, JavaScript
- **Tools & Technologies:** Git, GitHub Actions, Docker, Linux, CI/CD, JFlex, Java CUP, PostgreSQL
- **Software Development:** Object-Oriented Programming (OOP), Data Structures & Algorithms, Design Patterns
- **Operating Systems & Architecture:** Linux (Ubuntu, xv6), Windows, MIPS Assembly
- **Data Science & Machine Learning:** Pandas, NumPy, Matplotlib, Scikit-learn