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 strong foundation in full-stack development, API integration, and software engineering. Proven ability to build dynamic web platforms using React, Node.js, and cloud technologies like Docker and AWS. Demonstrated leadership in team-based capstone projects and continuous learning through personal projects and GitHub contributions.

EXPERIENCE

Portfolio Website - Full-Stack GitHub-Integrated Portfolio (Next.js, TypeScript, Tailwind CSS) | May 2025 | Personal Project

- Built a personal portfolio using Next.js App Router and Tailwind CSS to showcase projects and technical background.
- Integrated GitHub REST API to dynamically fetch and display public repositories using client-side React hooks.
- Structured portfolio as a full-stack solution with dynamic routing, responsive design, and deployment on Vercel.
- Implemented a sitemap and SEO metadata generation using GitHub data, eliminating reliance on local markdown.

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.
- 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.

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.

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.

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
- Frontend: React, Next.js, Tailwind CSS, TypeScript