

PABLO MANTANIC

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EDUCATION

California State University, Northridge, Northridge, CA

Expected June 2027

B.S. in Computer Science, GPA: 3.78,

Andrew J. Anagnost College of Engineering & Computer Science

RELEVANT COURSE WORK

COMP 541. Data Mining

Spring 2026

- Learned about data preparation, including data cleaning, integration, transformation, and selection.
- Worked in Google Collab, utilizing python's pandas library to filter out outliers using different methods such as the 1.5IQR and three sigma rules.
- Used python's matplotlib library to create digestible diagrams to depict trends in various forms such as boxplots, histograms, and scatterplots.

COMP 333. Concepts of Programming Languages

Fall 2025

- Gained valuable skills in memory management, specifically manual memory management, reference counting, garbage collection, ownership and borrowing.
- Worked in language environments utilizing different types, such as dynamic typed, static typed, strong typed, and weak typed, with different operations being done at runtime and compile time.
- Wrote programs using various forms of inheritance like class-based and prototype based, as well as programs using virtual dispatch and higher-order functions.
- Created memory diagrams to represent relationships and connections between allocated values.

COMP 380/L. Introduction to Software Engineering and Lab

Fall 2025

- Learned about and utilized various software process models to facilitate the process of requirements specification, design and development, testing, and implementation.
- Presented the project, going over each part of the software development process, including a live demonstration and thorough detail going over each functionality of the application.

CIS 192 - Introduction to Cloud Computing

Fall 2022

- Learned fundamentals of cloud computing including the different cloud computing models
 - Infrastructure as a Service, Platform as a Service and Software as a Service on the Amazon Web Services platform.
- Reviewed the basic concepts of server, networking, and storage virtualization.
- Analyzed current industry trend of computing, storage and application migration to cloud computing.

PROJECTS

AI Network Traffic Classifier

Fall 2025

- Used python's scikit learn library to implement a RandomForestClassifier Machine Learning Model to differentiate Network Traffic as either Normal or Suspicious.
- Preprocessed a KDD dataset by scaling and encoding the data in order to be able to utilize python's library using the pandas and numpy libraries.
- Testing and comparing various other methods to determine which algorithm would be best suited for this type of project.
- Wrote a report going over the project motivation, algorithm, result evaluation, methodologies, with bar graphs and numbers to facilitate comprehension of results. Discussed the statistical significance in the differences in results comparing various algorithms utilized as well as differing results based on coding errors.

School Management Software

Spring 2023

- Created a school management application in Java to be able to add students, courses, grades, and enrollments.
- Added the ability to store the information in a database, and access it in various view formats based on student ids, enrollment ids, and course ids, with the ability to generate a grade report.
- Utilized JavaFX for the interface of the program, with user friendly design to make it effortless to create new students, courses, or grade inputs, as well as views.
- Presented a live demo on zoom where I discussed the code, going into detail on how it works as well as a walkthrough on how to navigate and use the application.

SKILLS

Technical: Java, Python, C++, JavaScript, HTML, CSS, MSSQL, React, Google Sheets, Google Collab

Qualitative: Project Management, Attention to Detail, Problem Solving, Leadership, Decision Making, Detail Oriented, Data Analytics

Languages: Spanish (Fluent) | **Achievements:** Dean's Honor List - Fall 2023, Spring 2024, Spring 2025, Fall 2025