

Computer Science Final Projects Portfolio

1. Java - Student Record Manager

An object-oriented CLI application to manage student records.

- Java serialization for saving data to a file
- ArrayList for dynamic student storage
- Menu-driven interface for user interaction
- Includes ID-based search and record updates

2. C++ - Inventory Tracker

A modular C++ application to track products in inventory.

- Uses classes and `std::vector` for product management
- Supports file-based saving and loading
- Search, update, and delete functionality included
- Ideal for learning pointers and file streams

3. PostgreSQL - Company HR Database

A fully normalized HR database schema with advanced queries.

- Tables: employees, departments, salaries
- Implements joins, views, and group-based aggregation
- View: `high_earners` for salaries above \$100K
- Excellent practice for relational schema design

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