**ACADEMIC PROJECTS**

**Database Design and Development of Web applications**

* Implemented a database design to build a web application for a hotel reservation system using PHP scripts and SQL queries.
* Created a use case diagram using Microsoft Visio professional 2013 to describe usage scenarios.
* Produced an ER diagram using Microsoft Visio professional 2013 to reflect exactly how the customer’s information will be stored in MySQL database.
* Designed web pages and integrated them using HTML and CSS.

**Data Warehousing, Mining and Visualization**

* Analyzed a bank dataset showing the responses to a survey gauging customers’ interest in subscribing to a term deposit.
* Utilized IBM SPSS Statistic 22 and IBM SPSS Modeler 16.0 software for exploratory data analysis and clustering analysis as well as developing association rules.
* Produced meaningful results by processing 37, 004 records of raw data to identify the demographics of individuals interested in term deposits.
* Implemented CRISP-DM mythology to complete the analysis of the data set.

**Database Management System**

* Created a database for a real-estate management firm that stored tenant information.
* Created tables using relationships and constraints of several columns of information which included contact information, monthly payment, and due dates for tenants.
* Constructed the database in Microsoft Access 2013 and populated it with data, queries, forms and reports.