

EXPERIENCE

Institutional Research, Texas Tech University - IT Division

Lubbock, TX

Software Developer

March 2018 - present

- Developed web pages and applications using MVC architecture with SQL to represent institutional data.
- Responsible for writing front end, back-end logic; stored procedures, views, functions and custom data type in SQL for all possibilities of user selection.
- Integrated Tableau and IBM Cognos report with the web application to increase interactivity.
- Provided full lifecycle support to clients from initial client interaction, requirement gathering, design thinking and post production support as well as involved in all phases of Agile Scrum and participated in Sprint Planning.

Application Development and Support, Texas Tech University - IT Division

Lubbock, TX

Programmer Analyst

Oct 2017 - Mar 2018

- Supported the development team on projects related to TTU K-12 and C2K grade reporting using SSRS services.
- Worked closely with the TTU K-12 to evaluate overall progress of moving to a LMS as well as grade report that became part of the portal application.
- Optimized queries by altering the database design from OLTP to OLAP implementing snow flake schema.
- Effected the successful building of ETL process to migrate data from various types of data sources to destination database server using SSIS packages.

High Performance Cloud Computing (HPCC), Texas Tech University

Lubbock, TX

Research Assistant

Jan 2018 - present

- **OpenAPI Project:** Applying OpenAPI to Data Center Analytics and Control in order to perform code generation for DMTF's Redfish Schema. Reengineering HPCC data center by leverage specifications in the Open API lifecycle.
- **Virtualization, Docker:** Designed a framework using the Docker technology to simulate a data center with a sharing system for Dell EMC. Helped in running a client application on the heading node and a server application on each of the agent node.

TECHNICAL SKILLS

- **Programming Skills:** JAVA, Python, C#, Object Oriented Programming, JavaScript, jQuery, NodeJS, AngularJS
- **DataBase:** Oracle10g, SQL Server, MySQL, MongoDB, mLab
- **Tools and Framework:** Git, Maven, Spring, Hibernate, Docker, Jenkins, Swagger, AWS, Heroku, Eclipse, IntelliJ, Visual Studio, Tableau, R
- **Web Technologies:** HTML, CSS, Bootstrap, SemanticUI, ExpressJS, Mongoose, PassportJS, D3.JS

PROJECTS

- **BlissCamp:** Constructed an application for people to share camp ground details and reviews. Built routes adhering to RESTful API, implemented authentication-authorization and refactored middleware to improve security.
- **Napster-Gnutella:** Developed a two-stage file sharing system implementing client-server architecture. Created a peer-to-peer file sharing system with a central indexing server using JAVA RMI. Built a purely distributed file-sharing system that allows file sharing without a central server using socket programming and multi-threading in JAVA.
- **Faculty Online Project:** Migrated faculty data and other activities from OmniUpdate to C# for reporting and auditing. Created queries joining multiple tables and coded views and stored procedures from the IR data warehouse. Inclusion and integration of this section increased web traffic by 6% with the availability of fully dynamic faculty data.
- **Tic-Tac-Toe Game:** Designed a multi-agent environment that allows human player to compete in multiple difficulty levels. Constructed an AI system using minimax heuristic algorithm in PYTHON to guide computer to right action. Designed and implemented GUI to promote user interaction.

EDUCATION

Texas Tech University

Lubbock, TX

Master of Science in Computer Science; GPA: 3.80

Jun 2017 - May 2019