

QUALIFICATIONS

Master of Science in Computer Science | GPA - 3.72/4.0 | Since Sep 2018 – Present | **Portland State University, Oregon**
Postbaccalaureate Program in Computer Science | Jan 2017 - June 2018 | **Portland State University, Oregon**

TECHNICAL SKILLS

Programming Languages: C++, JAVA, SQL, Python, JavaScript
Web Development: HTML, CSS, REST
Cloud Services: AWS, GCP
Operating Systems: Windows, Linux
Library/API: NumPy, Keras
Database Management System: MySQL, PostgreSQL, BigQuery
Version Control: GitHub

COURSE WORK

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|---|--------------------------------------|---------------------------------|
| • Machine learning | • Deep Learning | • Artificial intelligence |
| • Introduction to Database management systems | • Relational database Implementation | • Cloud and cluster |
| • Full Stack Web Development | • Software engineering | • Agile software development |
| • Data Structures | • Operating Systems | • Internet and Cloud Management |
| | • Advanced Java Programming | |
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ACADEMIC PROJECTS / EXPERIMENTS

Deep Learning and Machine Learning:

- Trained a **Neural Network** with different activation functions and L2 Regularization to tune parameters on fashion MNIST dataset.
- Trained a **CNN** and a **GAN** on CIFAR-10 dataset, implemented a **RL algorithm** for playing Tic-Tac-Toe
- Experimented with **linear SVMs** and feature selection, **Gaussian Naïve Bayes** and **Logistic Regression** on the Spam dataset from UCI ML repository to recognize spam emails.
- Experimented using **K-means clustering algorithm** to cluster and classify the opt Digits data.

C++:

- Implemented a Chat room Program where individuals can interact in various chatrooms.
- Implemented a Festival Calendar to keep track of events to be held.

JAVA:

- Implemented a phone bill application to support a phone bill server that provides RESTfull web services to a phone bill client. Goal was to write a web application in Java and work with HTTP-based network communication. Later the project is extended to use Google Web Toolkit to implement a rich internet application for the phone bill application.

Cloud and Cluster:

- Designed the implementation of the chosen data model on DBLP graph data in a chosen cloud data management system (Cassandra) based on the given queries.
- Created a managed MySQL database with Cloud SQL, queried the Wikipedia dataset in BigQuery, ran Spark jobs on Google Cloud Platform's Dataproc service and wrote HiveQL queries and run it on HIVE on GCP.

Database Management:

- Designed and implemented a database based on IT-Employee data using on **PostgreSQL** and performed queries.
- **Benchmark performance comparison** project on **BigQuery**, **Cloud MySql** and **MySql workbench**.

Software Development:

- Implemented new functionality in the MIT Battlecode game framework.
- Implemented a client FTP server

Web Development:

- A Full Stack web project named as FoodSmart.com which is a smart diet planner that also include recipes.

CERTIFICATIONS

- IBM Data Science – Coursera
- SQL for Data Science - Coursera