**Back end**

**Professional Social Network (Spring 2015)**

* Implemented ETL Layer and user connections, job and career path recommendation system using Hadoop, Mahout, logstash, mongodb and AWS stack. Published dockerized Nodejs web services for UI clients.

**Stream Movie Analysis (Spring 2015)**

* Created PIG/ HIVE scripts which provides quantitative data that can be used to optimize business decisions.
* Mahout is used to provide top movie recommendations for users.

**Fault Tolerant Distributed Environment using Zookeeper (Spring 2015)**

* Designed, developed and setup zookeeper ensemble (fault tolerant) of 5 server machines with high availability for data services on different nodes. Fail over and no single point of failure environment.

**Lifeforce Data System (Fall 2014)**

* Designed and built massively parallel image query and registration processes with highly connected data sets.
* Load balancing, Auto Leader Election and Sharding was implemented for faster search capabilities of images.

**Monitor, Recovery and Management Solution using VMWare Technologies (Fall 2014)**

* Led a team of 5 members. Implemented DRS, DPM and Disaster recovery management settings using GUI.
* Designed and implemented solution to monitor and collect logs from VMs and provide analytics with visualization.

**Video Library Management System (Spring 2014)**

* Designed and developed restful web services (SOA) on non-blocking dockerized Nodejs application server.
* Scaled up the server performance by implementing connection pooling, server side caching with Redis.

**Big Data**

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**Fault Detection & classification of semiconductor fabrication processes (Fall 2015)**

* Designing and implementing a parallel data processing and analyzing framework which helps monitoring and detection of signals (pass/fail) from sensors from semiconductor manufacturing process.

**Web Development**

**Professional Social Network (Spring 2015)**

* Created user connections, job and career path recommendation system using hadoop, Pig, Mahout. Used Elastic cache (Redis) for server side caching. Used cloud watch for monitoring and Route53 for domain name setup.
* Used Amazon RDS and Dynamodb as data-bases and S3 for image storage. Created Nodejs webservices for clients.

**Financial portfolio web portal** **(Spring 2015)**

* Provides cumulative view of user’s day to day financial activities in a user friendly, fully responsive web portal.
* Used d3.js and highcharts to display various stock and commodity activities.

**FreeDoor Barter System (Fall 2014)**

* Designed and developed full stack web application with communication to restful web services for barter system which maintains user interactions for products exchange, user profiles and their inventories etc.

**Monitor, Recovery and Management Solution using VMWare Technologies (Fall 2014)**

* Led a team of 5 members. Implemented DRS, DPM and Disaster recovery management settings using GUI.
* Designed and implemented solution to monitor and collect logs from VMs and provide analytics with visualization.

**E-commerce Portal (Spring 2014)**

* Designed and developed restful web services (SOA) on non-blocking Nodejs application server.
* Scaled up the server performance by implementing connection pooling, server side caching with Redis.