

# **Software Engineer**

## **Edward Cho**

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# 1 Introduction

## Pursuing Engineer who is handling big data

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OS: Mac OS, Unix Server  
Language: C++, Python, Java

Interested in: Handling Big data  
Database  
Data Engineering  
Server



## 2 Education



### **Dongguk University**

Electric Engineering 2012-2015  
GPA: 3.6/4.5  
Transferred after Sophomore year

### **Why change major?**

I was interested in coding,  
so I changed my major  
from electric engineering  
to computer Science.

## 2 Education



### University of Oregon

Computer and Information Science

Bachelor's Degree, 2016.09-2019.06

GPA: 3.54/4.3

### Awards

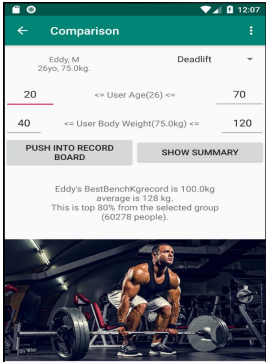
Clarence and Dumbar Scholarship  
Dean's List 2016, 2017

### Activity

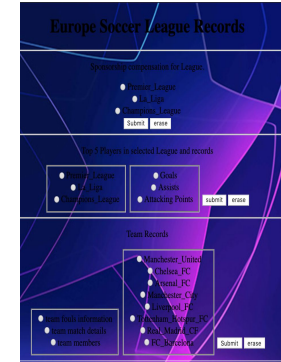
Math Tutor 2017.09-2018.06

# 3 Project

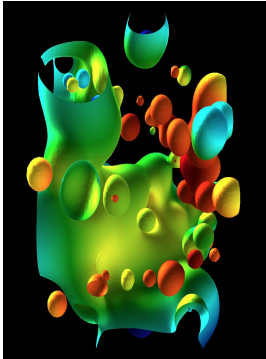
## Android App Development



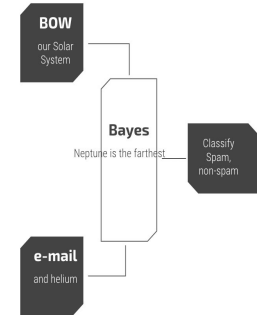
## Web Development With RDB



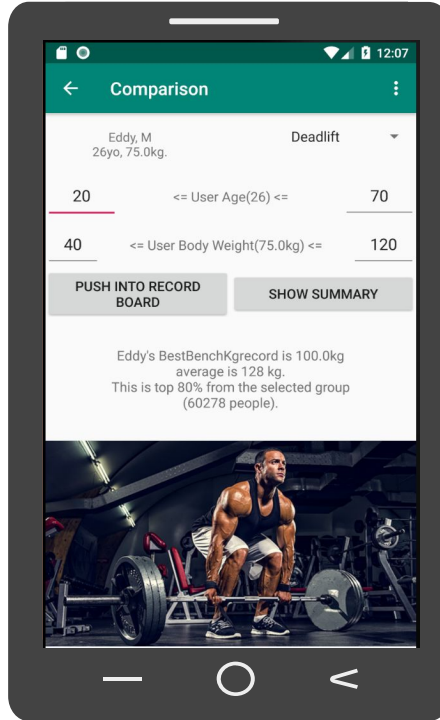
## Graphics



## Data Analysis



# Android App Development



Java, SqliteDB, Pandas, Python, SQL

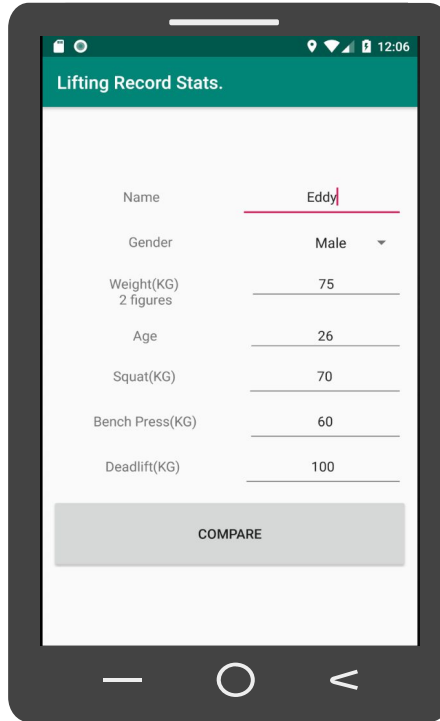
2018.06.13 ~ 2018.06.22 (10days)

## Concept of Operation

Compare the user's powerlifting record with other records.

User can choose a comparing group.

# Android App Development



The screenshot shows an Android application interface with a teal header bar containing the title "Lifting Record Stats." and standard Android status bar icons at the top. Below the header is a form with the following fields:

Name	Eddy
Gender	Male
Weight(KG) 2 figures	75
Age	26
Squat(KG)	70
Bench Press(KG)	60
Deadlift(KG)	100

At the bottom of the form is a grey button labeled "COMPARE". The phone's navigation bar at the very bottom shows the back, home, and recent apps icons.

## Features and Improvement in the future

- Used SQLiteDB and Kaggle dataset(400K). Save time to collect enough data.
- App capacity was too large because DB was inside the app.
- Need to implement Server and run database on the server

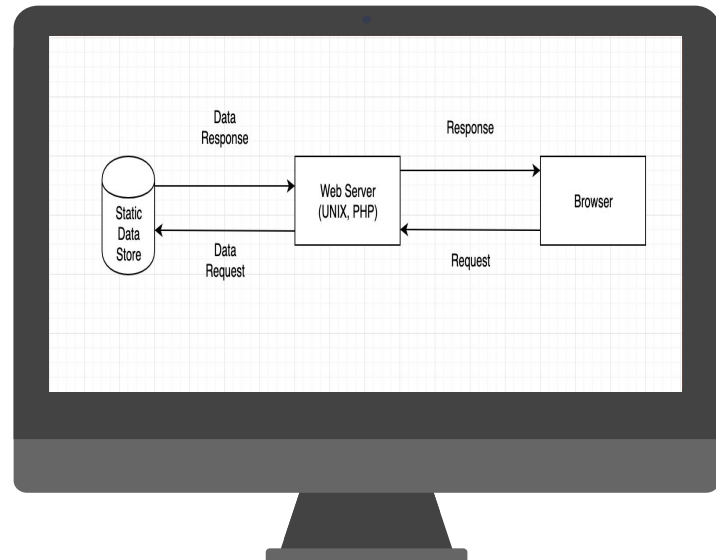


# Web Development with RDB

MySQL, SQL, PHP, HTML, Unix Server	2018.11.22 ~ 2018.11.30
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## Concept of Operation

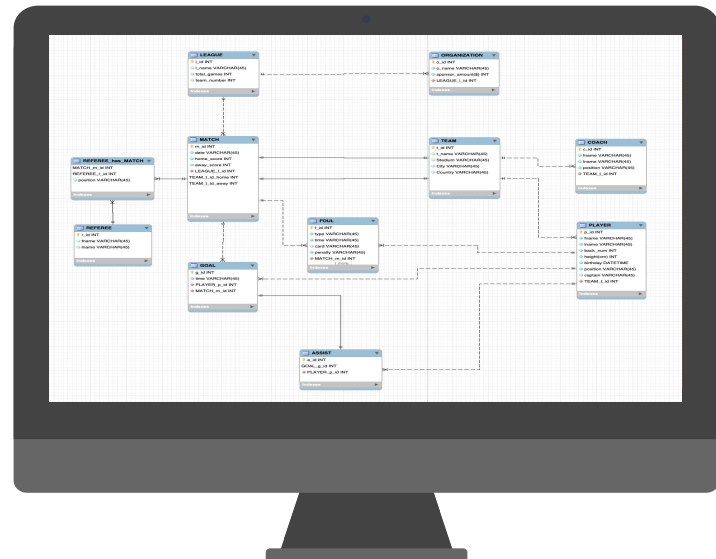
Make the user get the Europe soccer league records.



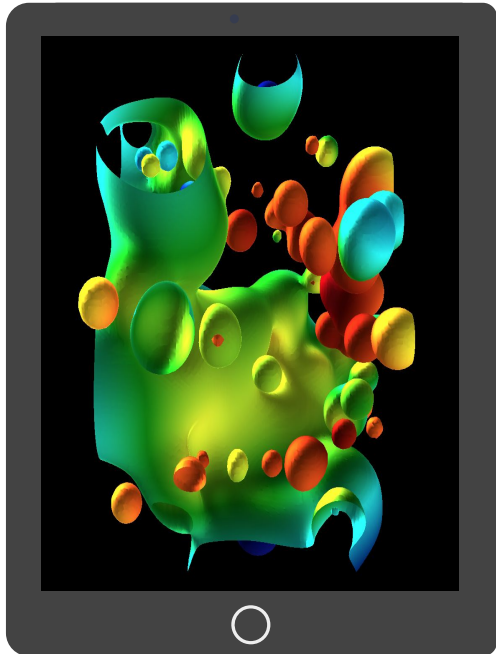
# Web Development with RDB

## Features and Improvement in the future

- Incorporate different leagues and show the records.
- Web crawling will be needed to collect data in the future.
- Applying Indexing will be useful to handle big data in the future.
- Did not cover the synchronization problems.



# Graphics



C++, VTK, CMake

2019.01.10~ 2019.02.14

## About the work

Made some OpenGL functions using C++ and VTK

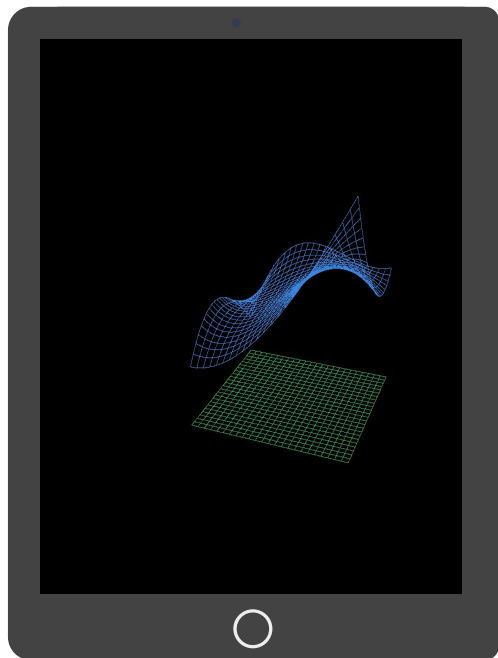
Scanline Algorithm, Matrix Transformation, Phong Shading

Used test code and fixed up the errors.

# Graphics

C++, VTK, CMake

2018.03.07 ~ 2018.03.12

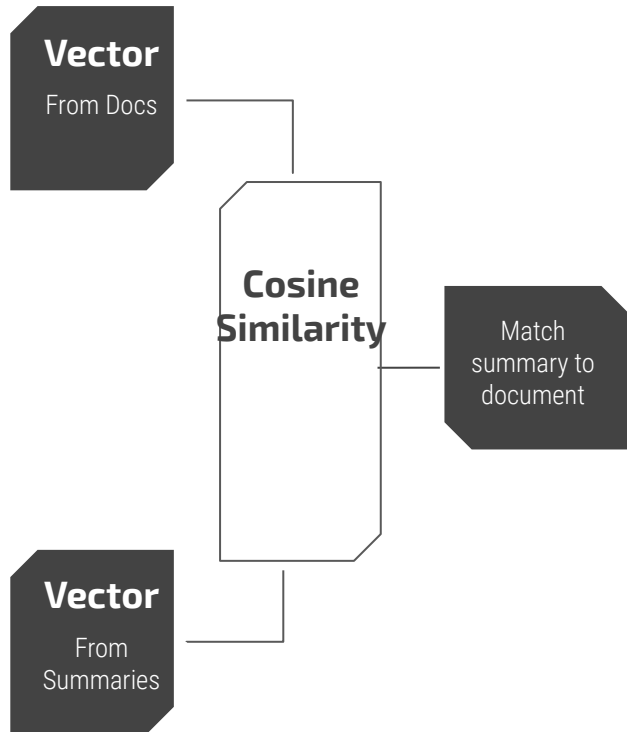


## About the work

Bezier Surface, Curve line in C++ and VTK

Casteljau's Algorithm

# Data analysis, Summary matching



Python, Pandas, RegEx, NLTK

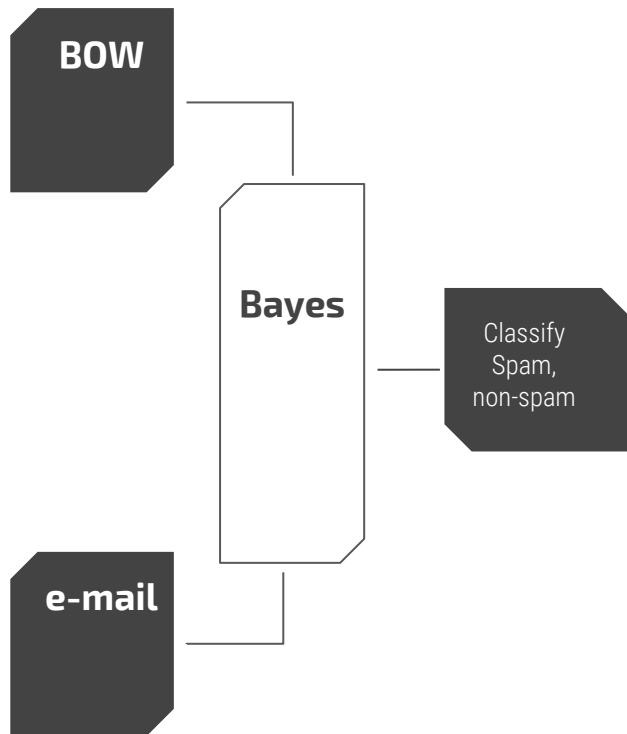
2019.07.24~ 2019.08.18

## About the work

Matched summaries to documents using word vector and cosine similarity.

Small Data Set(3 Documents, 150 Summaries), Accuracy: 95%

# Data Analysis, Spam Classification



Python, Pandas, NLTK

2018.12.20~ 2019.01.5

## About the work

Classified emails using Bayes if it is spam.

Kaggle Data (11K), Accuracy: 86%