RAYMOND YEH

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TECHNICAL SKILLS

Proficient: Java, Python, JavaScript, PHP, HTML/CSS
Exposure: Scala, MATLAB
Software/Frameworks: Git, ItelliJ, PyCharm, MySQL, jQuery, Tensorflow, Spark, Numpy, Pandas

WORK EXPERIENCE

SASCO – Project Engineer Sept/15 – Present

- Project engineer specializing in commercial electrical construction projects.
- Managed field operations and assisted with budgeting, scheduling, and planning for several multimillion dollar projects.

Georgia Institute of Technology – Grader for Machine Learning Class Jan/17 – June/17

- Responsible for grading assignments, class participation, and exams.
- Managed course content and answered student questions through Piazza.

University of California, Berkeley – Undergraduate Researcher Jan/15 – May/15

- Developed a smart thermostat for residential sites under time-based electricity pricing using MATLAB.
- Modeled room temperature as a Hidden Markov Model and used expectation maximization and linear regression to estimate the parameters.

PROJECTS

Fitness Tracker Application Mar/18 – Present

- Web application to track and predict progress with weight loss based on caloric intake.
- Users can edit fitness data for each day and upload/download data in csv format.
- Implemented a simple neural network in Python to analyze the data.
- Includes front-end with HTML, CSS, and Javascript and back-end with PHP and MySQL.

Java Based Yu-Gi-Oh Game Jan/18 – Mar/18

- Developed a turn based card game inspired by the popular trading card game Yu-Gi-Oh.
- Used Java Swing for GUI components and implemented a simple AI for the opponent.

Lung Cancer Detection Using 3D Convolutional Neural Networks Mar/17– Jun/17

- Analyzed 1500 high resolution CT scan images from the LUNA2016 dataset.
- Preprocessed and trained the data with 3D Convolutional Neural Networks using Tensorflow.
- Able to classify affected lungs with 78% test accuracy.

Grocery List Application Sept/16 – Oct/16

- Developed a grocery cart application for Android to add items to a grocery list, create/edit items, and check items off a list.
- Front-end developed in Java using Android Studio, used SQLite as the database back-end.

Airport Fuel Containment and Management Feb/15 – May/15

- Designed a smart storm drain system that detects fuel spills and automatically diverts contaminated water into storage tanks.
- Implemented a modified Dijkstra's algorithm in MATLAB to find optimal locations to place fuel detection sensors.
- Project received 2nd place at the 2015 National FAA Airport Design Competition.

HONORS AND AWARDS

2015 2nd place National FAA Airport Design Competition: Airport Environmental Interactions Challenge
2015 1st place overall for the 2015 Undergraduate Seismic Design Competition
2014 2nd place overall for the 2014 Undergraduate Seismic Design Competition
2009 Eagle Scout (Boy Scouts of America)

EDUCATION

2015 – 2017 **Georgia Institute of Technology -** M.S. Computer Science (Specialization in Machine Learning)
2011 – 2015 **University of California, Berkeley -** B.S. Civil Engineering