RAYMOND YEH

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TECHNICAL SKILLS

Languages: Java, Python, JavaScript, HTML/CSS, PHP, MATLAB
Software/Frameworks: Spring, Spring Boot, Git, Kafka, Docker, Node.js, React.js, Express.js, MySQL, Numpy, Pandas

WORK EXPERIENCE

Blume Global – Associate Software Engineer   Oct/18 – Present
- Designed and developed microservices for intelligent transportation management systems with Spring Boot.
- Implemented backend services and REST APIs for automated shipment carrier selection.
- New features deployed and used by over 6000 motor carriers.

SASCO – Project Engineer   Sept/15 – Jun/18
- 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 – Teaching Assistant   Jan/17 – Jun/17
- TA for machine learning class responsible for grading assignments, class participation, and exams.

University of California, Berkeley – Research Intern, Machine Learning   Jan/15 – Aug/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 – May/18
- 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.
- Front-end built with HTML, CSS, and Javascript and back-end built 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.

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.

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
2011 – 2015   **University of California, Berkeley -** B.S. Civil Engineering