Mark Zimmerman

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Projects:

GEORGIA INSTITUTE OF TECHNOLOGY   Aug 2021 – Present
Atlanta, GA

OpenAI's Gym based Football Game
- Multi-agent reinforcement learning exploration.
- Ablation study integrating concepts of COMA (Counterfactual Multi-Agent) methods with PPO (Proximal Policy Optimization).

OpenAI's based Lunar Lander
- Single-agent reinforcement learning exploration.
- Study of hyperparameter impact for Q-learning agent with replay memory, using neural net as a Q approximator.
- Opportunity to gain experience in efficient use of hardware including multiprocessing with CPU and committing vectorized environment, vectorized replay memory, and neural net training calculations on the GPU.

Raven Progressive Matrix Solver
- Knowledge-based artificial intelligence exploration.
- Pattern recognition agent, rivaling human capability, using techniques of computer vision, statistics, ensemble learning, and metacognition.

Work Experience:

UNIBAIL RODAMCO WESTFIELD   Oct 2013 – Jul 2021
Los Angeles, CA

Senior Recoverable Revenue Accountant | Jan 2017 – Jul 2021
- Create and expand on existing tools in excel to provide for faster, more accurate analysis, review, and calculation processes. Provide documentation and training to support the utilization of these 10+ tools.
- Provide training for all job facets from the technical to the analytical for 50+ persons since 2017, including new team members, entire departments after reorganization, and contracted parties abroad.
- Prepare analyses and summaries for upper and executive management to inform multi-million dollar business decisions.
- Engage IT in the development and testing of process improvements, reducing manual workloads by 100+ hours.
- Engage the legal department in considerations for policy improvements impacting 1,000s of tenants.
- Lead various ad hoc projects providing expectations for junior members, reviewing their work, and facilitating the adoption of the project's results by the business.
- Review cycle work done for 40+ properties and 1,000s of abstractions of tenant agreements into JD Edwards E1 performed by junior team members.
- Perform all described below for "Recoverable Revenue Accountant".

Recoverable Revenue Accountant | May 2015 – Dec 2016
- Abstract, and maintain, the appropriate expense recovery terms into JD Edwards E1 from dozens of tenant agreement forms (lease, amendment, easement, etc.) for 1,000s of tenants.
- Provide primary support and expertise in researching, resolving and responding to 100s of tenant correspondence related to Recoverable Revenues via a JIRA ticketing system.
- Assist Center Management, Regional Analyst, Regional Finance Directors, and Shared Services with requests and questions relating to Recoverable Revenues.

- Responsible for the calculation of Recoverable Revenues for 1000s of tenants each for of 3 cycles (Reconciliation, Forecast, Recharge).
- Achieve metric targets as appropriate.
- Identify and implement process improvements.
- Attend and participate in team meetings.
- Responsible for assisting the team on ad hoc projects, reports, analysis, and other assignments.

AR Specialist | Oct 2013 – May 2015
- Maintain 1000s of mall tenants' ledger's accuracy through thorough research and analysis.
- Communicate discrepancies in billings and payments received intelligibly and diplomatically.
- Collaborate interdepartmentally and with peers to achieve the above for over a thousand tenants at once.

Education:

GEORGIA INSTITUTE OF TECHNOLOGY   Atlanta, GA
- Ongoing Master's in Computer Science - Machine Learning
- Expected graduation: December 2023
- Current GPA: 4.0/4.0

EL CAMINO COLLEGE   Torrance, CA
- Attended Supplementary Computer Science and Technology classes
- Preparation for Master's program - no credential obtained

UNIVERSITY OF CALIFORNIA, LOS ANGELES EXTENSION   Los Angeles, CA
- Completed Certificate of Accounting

UNIVERSITY OF CALIFORNIA, RIVERSIDE   Riverside, CA
- Studied Computer Science for a year
- Completed Bachelor of Science in Mathematics

Skills:

Languages: Python, C++, Java, C#
Libraries: NumPy, PyTorch, Ray.RLLib, Sklearn, MatPlotLib, Gym, Pandas, Pillow, OpenCV
Technologies: Visual Studio, VS Code, Git, Anaconda, Docker, Unity, Jupyter Notebooks, CUDA, LaTex, Inkscape, Linux, Windows, Microsoft Office
Studies: General Artificial Intelligence, Game AI, Knowledge-based AI, Reinforcement Learning, General Machine Learning, Human Computer Interaction, AI Ethics, Human Computer Interaction