Costa Huang

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PROJECT INTERESTS

Artificial Intelligence, Reinforcement Learning, Game AI, Open Source Software, Visualization, Concurrent Programming, Cloud Computing, Highly Scalable Programs, Web Programming, DevOps.

SKILLS

Python, Pytorch, Tensorflow, Statistics, Go, Docker, JavaScript, Git, Linux, SQL.

EXPERIENCE

Drexel University, Philadelphia, PA

Research Assistant **Sep 2019 – Present**

Working with my advisor Dr. Santiago Ontañón on game AI research. We use a customized Real-time Strategy Game and train agents with reinforcement learning algorithms such as (A2C) Advantage Actor Critic.

Carely, Inc., Greenville, SC

Backend Developer **Jun 2018 – Sep 2018**

Developed API server for the web and mobile platforms by using Go and MySQL. Coordinated through Jira, Slack and Github. Worked with Docker, OpenAPI(Swagger), and Google App Engine.

Furman University, Greenville, SC

Research Fellow **Jun 2017 – Aug 2017**

Worked with Dr. Chirs Healy to conduct research on travel plan recommendation based on historical traffic flow data. Authored a Python server package, StreetTraffic, that crawls traffic flow data. Created proper unit-tests and documentation by using Sphinx.

EDUCATION

Furman University, Greenville, SC

B.S in Computer Science
B.S in Mathematics **Aug 2013 – May 2018**
- Dean's list (2017 - 2018)
- GPA: 3.40 / 4.00

Drexel University, Philadelphia, PA

Ph.D in Computer Science (Expected 2023) **Sep 2018 – Present**
- GPA: 3.63 / 4.00

PUBLICATIONS

"Comparing Observation and Action Representations for Reinforcement Learning in μRTS", Huang, S., Ontañón, S., *AIIDE Workshop on Artificial Intelligence for Strategy Games*, October 2019.

PROJECTS

CleanRL
Reinforcement Learning Library
github.com/vwxyzjn/cleanrl
- Python ★ 38

Portwarden
Backup Encrypted Bitwarden Vault
github.com/vwxyzjn/portwarden
- Go ★ 37

Gym-MicroRTS
OepnAI Gym Env for MicroRTS
github.com/vwxyzjn/gym-microrts
- Python ★ 2

StreetTraffic
Road Traffic Data Library
streettraffic.org
- Python ★ 11