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github.com/hvariant bitbucket.org/hvariant



latest version:

Education

Australian National University

Master of Computing

- GPA: 6.25/7.0

- Relevant Courses in: Introduction to Statistical Machine Learning, Managing Software Projects in a System Context, Communication for Computing Professionals II, Operating Systems Implementation
- Currently Taking: Computer Vision, Computing Project (Techlauncher)

Sun Yat-sen University

Guangzhou, China

Canberra, Australia

Feb. 2016 - now

Bachelor of Science in Computer Science and Technology

Sep. 2011 - Jul. 2015

- GPA: 3.7/4.0

 Relevant Courses in: Computer Architecture, Principles of Computer Organization, Data Structures, Algorithms Design and Analysis

Experience

• ANU CS individual Project

Canberra, Australia

Project Student Supervised by Prof. Steve Blackburn

Jul. 2017 – present

- Developing concurrent reference counting garbage collector

• Udacity Deep Learning Nanodegree Foundation Student

Canberra, Australia
Jun. 2017 – Aug. 2017

 Developed deep learning projects for image classification (CNN) and generation of tv script (RNN) and human faces (DCGAN)

• ANU TechLauncher

Canberra, Australia

Member of Carbon Reduction Optimzer team

Mar. 2017 - present

- Developing machine learning solutions for automated building energy consumption breakdown estimation
- Working with Canberra start-up Wollemi Systems

• Sun Yat-sen University

Guangzhou, China

Research Intern at Logic Intelligence and Computation Group

2014 - 2015

- Developed general game playing agent 'LICAgent'
- Conducted research on combinatorial games, general game playing, and Monte Carlo Tree Search

Flamingo Inc

Guangzhou, China

2012 - 2013

Software Developer

- Developed back-end code using PHP+MySQL for iOS game 'Beautiful Life'
- Developed Windows port of mobile game 'Fishing Joy' and added 4-player local co-op
- Worked on Android port of popular iOS game 'MT Online'

Skills

Technical skills (experienced): C/C++, Python, Java, git, Linux/UNIX sysadmin, vim, LATEX

Technical skills (familiar): Matlab, sklearn, Android, HTML/CSS, MySQL, PHP, Haskell, VHDL/FPGA

Communication: agile project management, technical report writing

Languages: English (professional proficiency), Mandarin Chinese (native)

Projects

Concurrent Garbage Collection:

- Concurrent reference counting garbage collector implementation in JikesRVM using MMTk
- Based on a previous state-of-the-art collector RCImmix

Carbon Reduction Optimizer:

- Developed machine learning models for building energy breakdown estimation using scikit-learn
- Identified key performance indicating features using feature engineering and selection
- Resulting model can predict building energy breakdown by activity within reasonable margin of error (2.5% to 3%) using answers to a short survey

LICAgent:

- General Game Playing agent written in C++
- implemented MCTS algorithm for general game AI
- Finalist at IGGPC 2014

Fishing Joy Windows port:

- Implemented various bugfixes to game code and cocos2d-x engine in C++
- Added 4-player local coop on multi-touch screen

Beautiful Life:

- Designed the API for communication between game and back-end server
- Implemented back-end code using PHP & MySQL
- Created a website for marketing team to view detailed game analytics

Honours

Honorable Mention in Mathematical Contest in Modeling 2014

Second Prize in the 3rd ICPC Novice ACM Coding Contest at Sun Yat-sen University

Publications

2014 Di Yang and Weigang Wu and Zhansong Li and Jiongyu Yu and Yong Li,

"PPMS: A Peer to Peer Metadata Management Strategy for Distributed File Systems", In Network and Parallel Computing - 11th IFIP WG 10.3 International Conference, NPC 2014, Ilan, Taiwan, September 18-20, 2014. Proceedings, pp. 435-445, 2014.