

Alan Yeung

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"Impossible problems are made up of possible pieces."

Education

Colorado College

B.A. IN COMPUTER SCIENCE AND ECONOMICS SUMMA CUM LAUDE, OVERALL GPA: 3.9, MAJOR GPA (FOR BOTH): 4.0

Colorado Springs, CO

May 2012 - May 2016

Awards/Honors: Distinction in Economics, Deans List (all years), Euclid Scholarship, Buick Achievers Scholarship, Douglas County

Scholarship, American Chemical Society Award, and National AP Scholar

Projects

Othello Bot

<https://github.com/yeungalan0/Othello>

PROGRAMMED THE ALPHA-BETA PRUNING ALGORITHM FOR A BOT THAT WON THE CLASS COMPETITION.

Mar. 2015

- Made a bot for a class project using object oriented programming, alpha beta pruning, and heuristics to play Othello strategically
- The bot, won the class competition and is undefeated so far when played against other online bots (project used Java)

Minecraft AI

https://github.com/tpbarron/minecraft_dqn_interface

WE DEVELOPED AND TRAINED AN AI AGENT TO PERFORM INTELLIGENT ACTIONS IN A MINECRAFT LIKE ENVIRONMENT

2015-2016

- Interfaced an existing Minecraft game environment with a neural network developed by Google DeepMind
- Trained the agent to perform several tasks in the 3D environment and analyzed learning
- Worked on developing a better algorithm through Transfer Learning
- Published paper at IJCAI Deep Reinforcement Learning workshop based on our research (project used Python, Caffe, Torch, Lua, C++)

Wheel of Books

DEVELOPED A PROGRAM THAT QUERIED SEVERAL APIs AND SUGGESTED BOOKS TO USERS BASED ON USER CRITERIA

Sep. 2015

- Queried three different APIs (Google Books, ISBNdb, and the Fixer IO API)
- Parsed XML and JSON responses from the APIs
- Developed a simple UI to present the book information to the user (project used Python, XML, and JSON)

Skills:

Technical Tools

Java (P), Python (P), Perl (P), Microsoft Office Suite (P), Ansible (P), CGI (P), LaTeX (P), Jekyll (P), GitHub (P),
Web services (PE), MySQL/Relational databases (PE), XML (PE), YAML (PE), JSON (PE), Lua (PE), HTML5 (PE),
Intel Assembly (PE), Redis (PE), MongoDB (PE), *P = Proficient & PE = Prior Experience

Operating Systems

Linux (P), Mac OSX (P), Windows (P), Unix (Solaris, AIX, HP-UX, IRIX) (PE)

Experience

Lockheed Martin

Littleton, CO

SYSTEMS ADMINISTRATOR ASSOCIATE (PREVIOUSLY COLLEGE STUDENT TECH INTERN SPECIALIST 2015-2016)

July 2016 - Present

- Performed Linux/Unix system administration tasks including but not limited to the following:
 - Developed infrastructure and system automation tools, increasing efficiency in cases by 24x
 - Programmed scripts, debugged code, utilized creative problem solving methods
 - Developed our Ansible (system configuration and management tool) code repository
 - Designed and documented parts of our infrastructure
 - Installed, configured, and patched software applications
 - Supported daily incident management system, responding quickly and efficiently to customer needs/problems

Colorado College

Colorado Springs, CO

QUANTITATIVE REASONING CENTER TUTOR

Apr. 2014 - May 2016

- Tutored students on a variety of Computer Science and Economic topics
- Developed and used different learning techniques to help students succeed
- Took on various roles as an individual tutor, Learning Assistant, and drop in tutor

Colorado College

Colorado Springs, CO

RESIDENT ADVISER

Jan. 2014 - May 2015

- Managed a hall of 34 people
- Understood, communicated, and enforced existing Department of Residential Life policies and procedures
- Budgeted and allocated money used for residence hall/floor events
- Led student centered hall programs to promote socializing, diversity, health, understanding, and growth
- Promoted the interaction and construction of social networks between community and residents

Extracurricular Activity

Colorado College Coding Club (C4)

Colorado Springs, CO

CO-FOUNDER AND CO-CHAIR

Sep. 2014 - May 2016

- Co-founded and organized C4
- Oversaw the development and vision of the organization
- Planned and organized events to bond and gain industry understanding
- Facilitated Colorado College coders with a forum to organize and work together on various projects