

# Alan Yeung

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*"Impossible problems are made up of possible pieces."*

## Education

### Colorado College

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

Awards: Deans List (Freshman & Sophomore year), Euclid Scholarship, Buick Achievers Scholarship, Douglas County Scholarship, American Chemical Society Award, and National AP Scholar

Colorado Springs, CO

May 2012 - PRESENT

## Projects

### Othello Bot

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

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

Mar. 2015

- I made an Othello Bot for a class project that uses 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 (Java)

### Minecraft AI

[https://github.com/tpbarron/minecraft\\_dqn\\_interface](https://github.com/tpbarron/minecraft_dqn_interface)

DEVELOPED AND TRAINED AN AI AGENT TO PERFORM INTELLIGENT ACTIONS IN A MINECRAFT LIKE ENVIRONMENT (WITH EXCELLENT HELP)

Current

- 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 (Python, Caffe, Torch, Lua, C++)

## Skills:

### Computer Skills

Java (P), Python (P), Perl (P), CGI (P), Sharepoint (P), LaTeX (P), Jekyll (P), GitHub (P), HTML5 (PE), XML (PE),

### Operating Systems

Intel Assembly (PE), MySQL (PE), Redis (PE), MongoDB (PE), \*P = Proficient & PE = Prior Experience

### Natural Languages

Linux (P), Mac OSX (P), Windows (P)

Proficient Mandarin and Cantonese speaking skills

## Experience

### Lockheed Martin

Littleton, CO

COLLEGE STUDENT TECH INTERN SPECIALIST

May 2014 - Aug. 2014, May 2015 - Present

- Performed Windows and Unix system administration tasks
  - Script programming, debugging, automation
  - RPM package creation
  - System configuration and documentation
  - Software application installation and updates
  - Support daily incident management system
- Applied and maintained required security patches
- Performed system diagnostics and troubleshooted issues

### Colorado College

Colorado Springs, CO

QUANTITATIVE REASONING CENTER TUTOR

Apr. 2014 - Present

- 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 ADVISOR

Jan. 2014 - May 2015

- Managed a hall of up to 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 - Present

- 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

### Asian Student Union

Colorado Springs, CO

TREASURER (2012-2013)/MEMBER

Dec. 2012 - Present

- Actively participated in discussions on the club's direction and current events
- Managed organization funds and allocation of over \$4,000 yearly
- Organized events and budgeted costs
- Coordinated and actively participated in fundraising endeavors
- Applied for grants and all other additional funding required