

Alan Yeung

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"Impossible problems are made up of possible pieces."

Education

Colorado College

Colorado Springs, CO

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

May 2012 - PRESENT

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

Projects

Amazon Review Search Engine

<http://cs.coloradocollege.edu/~ayeung/reviewSI/SearchHome.html> (link 000))

A SIMPLE SEARCH ENGINE CREATED TO SEARCH THROUGH GIGABYTES OF REVIEW DATA QUICKLY AND EFFICIENTLY.

Nov. 2015 - Dec. 2015

- Designed the web interface and document database to quickly search through Amazon review data given search criteria.
- (Python, JavaScript, HTML, CGI, Redis, MongoDB)

Professor's Queue Database

AN ONLINE SERVICE PROVIDING PROFESSORS WITH A LIST OF STUDENTS WHO NEED TO BE ATTENDED TO.

Apr. 2014

- Designed and implemented a web page and database with two friends to place students in different teacher queues so that students no longer needed to wait outside a professor's office to ask questions.
- Personally designed the database structure and wrote CGI scripts to handle client input and maintain the server-side state. (Python, JavaScript, HTML)

Othello Bot

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

PROGRAMMED THE ALPHA-BETA PRUNNING 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

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: P = Proficient & PE = Prior Experience

Computer Skills

Java (P), Python (P), Perl (P), CGI (P), Sharepoint (P), LaTeX (P), Jekyll (P), GitHub (P), HTML5 (PE), XML (PE), Intel Assembly (PE), MySQL (PE), Redis (PE), MongoDB (PE)

Operating Systems

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

Natural Languages

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

Children's Literacy Center

Colorado Springs, CO

SITE COORDINATOR

Aug. 2013 - May 2014

- Managed tutoring sessions consisting of up to 40 people
- Coordinated the assessment process and maintained student records
- Provided assistance, consultation, and support to volunteers in a professional and flexible manner
- Planned and conducted the end of semester celebrations for tutors and students

Colorado College

Colorado Springs, CO

REGISTRAR'S STUDENT ASSISTANT

Feb. 2013 - May 2013

- Advised students on scheduling policies and procedures
- Organized student data in an efficient manner
- Aided the registrar and other employees during high volume periods

Jack in the Box

Highlands Ranch, Colorado

TEAM LEADER

Dec. 2010 - Aug. 2012

- Oversaw and operated different workstations
- Motivated and empowered other employees
- Delegated Team Member positions for every shift in a manner that increased efficiency and customer service
- Understood and communicated food quality and safety regulations
- Delegated tasks, such as restaurant cleaning duties, and coordinated break times

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 themselves and work together on various projects

Asian Student Union

TREASURER

- 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

Colorado Springs, CO

Dec. 2012 - Dec. 2013

SIAM

MEMBER

- Participated in meetings and discussions
- Volunteered and helped with different events

Colorado Springs, CO

Aug. 2015 - Present

Honors & Awards

INTERNATIONAL

- 2014 **Finalist**, DEFCON 22nd CTF Hacking Competition World Final
- 2013 **Finalist**, DEFCON 21st CTF Hacking Competition World Final
- 2011 **Finalist**, DEFCON 19th CTF Hacking Competition World Final
- 2012 **6th Place**, SECUINSIDE Hacking Competition World Final

Las Vegas, U.S.A

Las Vegas, U.S.A

Las Vegas, U.S.A

Seoul, S.Korea

DOMESTIC

- 2015 **3rd Place**, WITHCON Hacking Competition Final
- 2013 **Silver Prize**, KISA HDCON Hacking Competition Final
- 2013 **2nd Award**, HUST Hacking Festival
- 2010 **3rd Award**, HUST Hacking Festival
- 2012 **3rd Award**, Holyshield 3rd Hacking Festival
- 2011 **2nd Award**, Holyshield 3rd Hacking Festival
- 2011 **5th Place**, PADOCON Hacking Competition Final

Seoul, S.Korea

Seoul, S.Korea

S.Korea

S.Korea

S.Korea

S.Korea

Seoul, S.Korea

Presentation

6th CodeEngn (Reverse Engineering Conference)

Seoul, S.Korea

PRESENTER FOR <DEFCON 20TH : THE WAY TO GO TO LAS VEGAS>

Jul. 2012

- Introduced CTF (Capture the Flag) hacking competition and advanced techniques and strategy for CTF

6th Hacking Camp - S.Korea

S.Korea

PRESENTER FOR <METASPLOIT 101>

Sep. 2012

- Introduced basic procedure for penetration testing and how to use Metasploit

Writing

A Guide for Developers in Start-up

Facebook Page

FOUNDER & WRITER

Jan. 2015 - PRESENT

- Drafted daily news for developers in Korea about IT technologies, issues about start-up.

AhnLab

S.Korea

UNDERGRADUATE STUDENT REPORTER

Oct. 2012 - Jul. 2013

- Drafted reports about IT trends and Security issues on AhnLab Company magazine.

Program Committees

- 2013 **Organizer & Co-director**, 1st POSTECH Hackathon
- 2012 **Staff**, 7th Hacking Camp
- 2012 **Problem Writer**, 1st Hoseo University Teenager Hacking Competition
- 2012 **Staff & Problem Writer**, JFF(Just for Fun) Hacking Competition

S.Korea

S.Korea

S.Korea

S.Korea