

# Alan Yeung

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*"Intellectuals solve problems, geniuses prevent them." - Albert Einstein*

## Education

### Colorado College

Colorado Springs, CO

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

May 2012 - May 2016

Awards/Honors: Distinction in Economics, Deans List (all years), Kenneth J. and Elizabeth Hare Curran Award in Economics, 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://tinyurl.com/ayeung-minecraft>

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++)

## Skills

### Technical Tools

Kotlin (P), Kubernetes/OpenShift (P), Java (P), Python (P), Perl (P), OPA (P), Microsoft Office Suite (P), Ansible (P), CGI (P), LaTeX (P), Git/GitLab/Bitbucket/GitHub (P), JSON (P), PHP (PE), Kafka (PE), Web services (PE), MySQL/Relational databases (PE), XML (PE), YAML (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, HPUX, IRIX) (PE)

## Experiences

### Lockheed Martin

Littleton, CO

ENGINEERING LEADERSHIP DEVELOPMENT PROGRAM ROTATION 2 - SOFTWARE ENGINEER

August 2019 - Present

- Developed real time Spring Boot stream processing micro services using Kotlin and Python
- Developed tests to ensure code quality
- Updated and pushed code using a development pipeline featuring Jenkins/GitLab, Docker containers, and OpenShift
- Architected and deployed system monitoring and security with Grafana, Prometheus, and Open Policy Agent
- Acted as team Scrum Master, and helped us adhere to agile development principles

### Lockheed Martin

Littleton, CO

ENGINEERING LEADERSHIP DEVELOPMENT PROGRAM ROTATION 1 - FULL STACK ENGINEER

July 2018 - August 2019

- Developed automation to stand up and configure OpenShift environments
- Planned and executed a project to migrate 4 OpenShift 3.5 environments to 3.11 with minimal customer impact
- Configured and utilized DevOps tools, such as Jenkins, Ansible, and Kubernetes
- Built custom images and used OpenShift development practices to integrate them into a DevOps pipeline
- Managed the OpenShift environment to ensure nodes were healthy and users were happy

### Lockheed Martin

Littleton, CO

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

July 2016 - July 2018

- Performed Linux/Unix system administration tasks including but not limited to the following:
  - Worked with DevOps team to stand up Cloud services/infrastructure in on prem Openstack/OpenShift environment
  - 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 (such as Mediawiki and 2FA)
  - Installed, configured, and patched software applications
  - Supported daily incident management system, responding quickly and efficiently to customer needs/problems

## Extracurricular Activities

### Aasian American and Pacific Islander Emerging Leaders Program

Denver, CO

EMERGING LEADER/COMMITTEE VOLUNTEER

Oct. 2017 - March 2018/Nov. 2019 - Present

- Developed our vision and purpose to guide our leadership/goals
- Challenged each other to grow out of our comfort zones with group/individual challenges
- Discussed critical leadership topics, such as trust building, active listening, and EQ
- Conducted strength testing and analysis