

# Alan Yeung

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

## Experiences

### Lockheed Martin

*Littleton, CO*

#### FULL STACK ENGINEER: LEADERSHIP DEVELOPMENT PROGRAM ROTATION 3

*Sep. 2020 - Present*

- Developed and supported Enterprise FOSS service built on Kafka, Elasticsearch, and over 8 distributed micro services
- Helped develop a Go Nexus reverse proxy to authenticate user tokens, with secure hash caching to decrease CPU load
- Refactored Spring Boot micro service, utilizing breadth first search and recursion, to unpack and deliver file archives
- Developed Spring Boot APIs for data interaction, along with tests to ensure code quality

#### SOFTWARE ENGINEER: LEADERSHIP DEVELOPMENT PROGRAM ROTATION 2

*Aug. 2019 - Sep. 2020*

- Developed real time Spring Boot stream processing micro services using Kotlin and Python
- Developed Spring Boot APIs for secure and simple data consumption of our time series data
- 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
- Performed as team Scrum Master, and helped us adhere to agile development principles

#### FULL STACK ENGINEER: LEADERSHIP DEVELOPMENT PROGRAM ROTATION 1

*July 2018 - Aug. 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

#### SYSTEMS ADMINISTRATOR ASSOCIATE

*July 2016 - July 2018*

- Worked with DevOps team to stand up Cloud services/infrastructure in on prem Openstack/OpenShift environment
- Developed infrastructure and system automation tools primarily using Ansible, increasing efficiency in cases by 24x
- Programmed Python and Perl scripts, debugged code, utilized creative problem solving methods
- Developed our Ansible code repository that managed over 3000 Unix/Linux systems
- 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

## Skills

### Technical Tools

Proficient in: Kotlin, Python, Java, Go, Perl, Shell, Spring Boot, Kubernetes/OpenShift, OPA, Docker, Ansible, OAuth, LaTeX, Git, GitLab CI/CD pipelines, JSON, Redis, MongoDB, MySQL/Relational databases, AWS EC2/DynamoDB/S3, prior experience in various other technologies (ask for details)

### Operating Systems

Proficient in: Linux, Mac OSX, Windows, prior experience with Unix flavors (Solaris, AIX, HPUX, IRIX)

## Projects

### One Dollar Site (in development)

[https://github.com/yeungalan0/one\\_dollar\\_site\\_front\\_end](https://github.com/yeungalan0/one_dollar_site_front_end)

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A WEBAPP WHERE PEOPLE CAN PAY \$1 TO SEE HOW MANY OTHER PEOPLE PAID \$1

*Oct. 2020 - Current*

- Developed NodeJS Lambda function backend to process and store incoming API requests
- Integrated backend code with PayPal SDK to verify payments
- Developed NextJS front end to take payments and display the current count to the user
- Deployed dev environment using automated pipelines, with front end accessible at <https://one-dollar-site-front-end.vercel.app/>
- **Tech used/learned:** ReactJS, NextJS framework, PayPal SDK, AWS Lambda/DynamoDB/API-Gateway, NodeJS, Serverless framework

### Time is Money Chrome Extension

<https://tinyurl.com/ayeung-timeismoney>

REFACTORED AND UPDATED THE TIME IS MONEY CHROME EXTENSION

*June - Sep. 2020*

- Developed a popup actions menu to disable/enable the plugin (with icon changing depending on state)
- Developed a feature to only update the active tab on state change to decrease unneeded memory usage
- Refactored and updated the code for easier long term maintainability/understanding
- Made pull request to contribute back changes to main project
- **Tech used/learned:** JavaScript, Google Chrome Extension framework, HTML, CSS

## 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