Alan **Yeung**

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

Experiences

Lockheed Martin — *Littleton, CO*

Senior Full Stack Engineer: Team Lead — *Feb. 2021 - Present*
- Lead the Enterprise FOSS team through feature deployments, team turnover, and numerous fires
- Trained new developers in the extensive system architecture and guided them in learning coding best practices
- Reviewed endless merge requests to ensure code quality, share knowledge, and get infinitely better at reading other's code
- Guided the architectural development of the system to improve stability and improve developer/user sanity
- Proposed and implemented cultural team practices to increase efficiency, improve testing, and make work more fun

Full Stack Engineer: Leadership Development Program rotation 3 — *Sep. 2020 - Feb. 2021*
- 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

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 — *https://www.imakethings.dev/posts/one-dollar-site*

A webapp where people can pay $1 to see how many other people paid $1 — *Oct. 2020 - Jan. 2021*
- 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://www.imakethings.dev/one-dollar-site
- **Tech used/learned:** ReactJS, NextJS framework, PayPal SDK, AWS Lambda/DynamoDB/API-Gateway, NodeJS, Serverless framework

Advent of Code 2020 — *https://www.imakethings.dev/posts/advent-of-code-2020*

Completed Advent of Code 2020 programming advent calender in Go — *Dec. 2020 - Jan. 2021*
- Practiced key Test Driven Development concepts to guide my code creation and validate its quality
- Developed my knowledge of Go, while spreading holiday cheer at the same time
- Tested and improved my knowledge of programming concepts such as recursive algorithms, dynamic programming, linked lists, the Chinese Remainder theorem, and number theory
- **Tech used/learned:** Golang, Gitpod

Education

Colorado College — *Colorado Springs, CO*

B.A. in Computer Science and Economics Summa Cum Laude, Overall GPA: 3.9, — *May 2012 - May 2016*

Major GPA (for both): 4.0

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