Alejandro J. Garcia

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Education

Stevens Institute of Technology, Hoboken, New Jersey
Bachelor of Engineering in Computer Engineering (August 2017 - January 2022)
GPA: 3.7/4.0
Honors: Edwin A. Stevens Scholarship, W.R. Herst STEP Scholarship, Dean's List, Class of 1984 Term Scholarship, NACME Scholarship, 1st Place HackPrinceton
Course Work: Computer Vision, Systems Programming, Algorithms, Microprocessors, Data Structures, Image Processing, Information Systems, Circuits and Systems, Engineering Design, Discrete Mathematics, Engineering Programming Python

Skills

Programming Languages: Go/Golang, C/C++, Python, Bash, Java, SQL, TypeScript, YAML, HTML, CSS, Javascript, ARM Assembly
Software/Tools: Kubernetes, Docker, Helm Charts, Grafana, Prometheus, Drone CI/CD, Spinnaker, Tilt, Flux, AWS, ArgoCD, Argo Workflows, Terraform, Kustomize, Artifactory, GitHub Actions, Raspberry Pi, Arduino, LogDNA, Vault, PostgreSQL, Redis, Vim, NGINX, Unreal Engine, Git, Linux/Windows/Mac OS, OpenCV, MongoDB, VSCode, Flask, Sklearn, Kafka, Matplotlib, Numpy, SQLite, Node.js, Express, React.js, Protobufs, gRPC

Work Experience

Software Engineer - Bishop Fox (Platform) | San Francisco, CA (Remote) (March 2023 - Present)
- Responsible for the design and deployments of platforms and services, ensuring operators within the company could efficiently conduct daily tasks without compromising production continuity.
- Pioneered the development of an automation runner service, to streamline the management of large-scale, single-target scans, thereby reducing the workload on customer endpoints. Coded in Golang. Deployed via GitHub Actions and Argo Workflows.
- Diligently addressed and resolved customer support tickets by enhancing internal APIs/Databases and refining Argo Workflows.

Software Engineer II - Reddit (Compute/DevOps) | San Francisco, CA (Remote) (June 2022 - February 2023)
- Distributed and designed a MetaScaler across all of Reddit's clusters to allow teams to correctly scale their HPAs and KEDA scaled objects. This allowed services at Reddit to become more scalable, reliable, and cut production costs with an average of $5000 monthly. Coded and tested using Golang. Deployed via Flux and Kustomize. Monitored via LogDNA, Grafana, and Prometheus.
- Developed custom CRDs and controllers to automate managing K8S, Terraform, and AWS/GCP resources for developers within their deployment processes. Allowing developers to spend less time managing infrastructure components and automating the process for them instead. Coded in Golang. Tested via e2e and unit testing. Implemented with K8S Cluster API & Crossplane API
- Performed daily tasks such as site operations, systems engineering, performance/scaling, configuration management, deployment management, monitoring, and basic on call tasks.

Software Engineer I - Reddit (Compute/DevOps) | San Francisco, CA (Remote) (January 2022 - June 2022)
- Designed architecture and opinionated K8S APIs to enable other product teams to build robust applications without deep domain expertise in the underlying systems. Systems included event based autoscaling via KEDA and vertical autoscaling via VPAs. Coded in Golang. Tested using unit tests.
- Released and developed a proof of concept of Argo Rollouts to allow deployments to improve overall reliability within Reddit. Allowed visualizations via Argo Rollout's Dashboard for developers to view their deployment processes.
- Managed daily tasks including cluster upgrades, inbound infrastructure tickets, and deployment management.

Software Engineer Intern - Reddit | San Francisco, CA (Remote) (June 2021 - August 2021)
- Deployed and tested functionality to an internal AWS auto scaling group rotator to asynchronously force rotate Kubernetes pods that are unable to be evicted after a set deadline in Python.
- Released and designed a working proof of concept within Infrastructure to re-route tracing data in a scalable and reliable way to Grafana Tempo using Kubernetes Helm Charts.
- Developed an internal address for Grafana's UI using Kubernetes Ingress to allow teams to visualize their tracing data from their software applications.

Software Engineer Intern - JP Morgan Chase & Co. | Plano, TX (Remote) (July 2020 - August 2020)
- Developed Backend software tools for a non-profit organization in Python using Flask REST API and ReactJS integration in an agile environment.
- Implemented OAuth authentication measures and stored/retrieved expected data desired from non-profit in MongoDB.
- Designed Backend solutions to different Consumer and Community Banking problems in Java and Python such as Real-Time Alerting and Transactional Data Representation.