

Khayyam Saleem

Education

Sep 2015 - May 2019

B.S. Computer Science – Stevens Institute of Technology 🇺🇸, Hoboken, NJ

Minors: Mathematics, Literature

Experience

Apr 2022 - Present

Senior Software Engineer, DigitalOcean, New York, NY

- Develop and operate features for DigitalOcean Kubernetes, a managed K8S offering
- Updated Kubernetes implementation to retain feature parity with upstream Kubernetes supported versions
- Revamped security architecture for DOCR Container Registry, reducing runtime dependence on the object storage API and increasing performance/success rate for creating registries
- Implemented performance improvements on VPS block storage API with GRPC streaming

Apr 2021 - Apr 2022

Senior API Architecture Engineer, J.P. Morgan Chase, Jersey City, NJ

- Created Developer Portal for external partners using Chase APIs
- Lead team of 7 engineers to deliver API publishing automation and observability with Datadog
- Provisioned AWS EKS 🏠 infrastructure with terraform 🏠
- Built out CI pipeline with Jenkins 🏠 and kustomize
- Deployed automated service virtualization from OpenAPI spec
- Strangled out routes from legacy developer portal using reverse-proxy route overrides
- Created cross-team documentation-as-code system and deployment pipelines using Hugo

Jan 2020 - Apr 2021

Cloud ETL Platform Engineer, J.P. Morgan Chase, Jersey City, NJ

- Designed and deployed a managed data pipeline solution for ETL jobs on internal k8s 🏠
- Migrated large-scale ETL jobs from legacy infrastructure to cloud pipelines
- Developed object inventory and audit API for ETL pipeline artifacts

Jun 2018 - May 2019

Software Engineer Intern, J.P. Morgan & Chase, Jersey City, NJ

- Developed healthcheck tool for message queue infrastructure

Dec 2018 - Present

Curriculum Developer, Codecademy 🏠, Manhattan, NY

- Write content for high-volume courses
 - java + spring boot, python, node.js + express, python + flask, go, c# + asp.net, devops, more
- Audit curriculum content across all courses
- Built internal ledger and review system for content changes [go, react, web-extensions]

Personal Projects

Life Skills Software

A platform for special-needs classrooms, gamifying the assessment and development of life skills

- Deployed microservice architecture on DigitalOcean 🏠 VPS with terraform
- Deployed high-availability sites with Cloudflare 🏠
- Migrated from VPS to K8S with zero downtime
- Created CI/CD pipeline for team of 22 to develop and deploy games, videos, articles, and software quickly [Jenkins, github-actions, gitlab-ci]

aws-k3s-lightsail

Implementation of gradual typing in MIT-scheme

Implementation of Hindley-Milner type inference engine in OCaml for Type Systems course

Deploy k3s on lightsail with terraform

Skills

Languages

go, rust, sql, ruby, javascript, lua, python, c++, racket, java, english, urdu, hindi

Frameworks

go+gin, react+redux, node.js+express, python+flask, java+spring-boot, ORMs, LaTeX

Tools

docker, k8s, terraform, grpc, nginx, envoy, hugo, vim, other linux stuff