

Jack Kleeman

Email: cv@kleeman.dev

Born: July 20, 1997

Nationality: British

Education

2015-2018 St Catharine's College, Cambridge - Economics
First class, ranked 9th/151

Work Experience & Career

2018- Senior Engineer on the Infrastructure team at [Monzo](#), where I specialise in Kubernetes, Calico, Envoy and Vault on AWS. My highlights have been leading projects on secret distribution, certificate management, network isolation, and Cassandra authentication.

2017 Five weeks as a Backend Engineering intern for [Monzo](#), building fraud detection tools using Go microservices and Cassandra, as well as front end work in React. The tools I built are used daily by the fraud team.

2017 Two months as an Undergraduate Research Fellow at Caltech in the [Social and Information Sciences Laboratory](#), studying algorithmic game theory. I completed a project on search costs in decentralised markets.

2016-17 CTO of Duo Money, working on a client-side cryptography application allowing for OpenBazaar operation in the browser using Go and Javascript.

2016-17 Six months at [Everledger](#) as a developer, working on blockchain applications in Go, as well as on Android apps and Python web applications.

Recent Projects

[Open source work](#). I am a regular contributor and org member of the Kubernetes and Istio communities. I am also a Hashicorp core contributor, focusing on Vault.

[egress-operator](#), a Kubernetes operator which helps to control traffic leaving your platform using ephemeral Envoy gateways.

[Cassandra authentication](#), a Vault plugin and associated tooling to issue and rotate tightly scoped Cassandra credentials for hundreds of services.

[Network isolation](#), a Kubernetes network policy system which tightly isolated thousands of services.

[calico-accountant](#), a Prometheus exporter for the Calico data path, to help with testing network policies.

[Secret distribution](#), a system which completely overhauled the way secrets are stored and managed at Monzo, using Vault.

[envoy-preflight](#), a wrapper which solves a sequencing problem when writing Kubernetes applications with an Envoy sidecar.