Jack Kleeman

Email: jackkleeman+cv@gmail.com
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 Platform Engineer on the Security team at Monzo, where I lead infrastructure projects, specialising 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   Ten months as a JavaScript & Go developer for Duo Money, working on a client-side cryptography application allowing for OpenBazaar operation in the browser. In doing so, I built distributed backend architectures and worked with peer to peer networking. Eventually I progressed to a CTO role and was integral to fund-raising and hiring efforts.

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

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.