# Ryan Eschinger

Software engineer specializing in Kubernetes and cloud-native technologies.

[ryanesc@gmail.com](mailto:ryanesc@gmail.com) • (561) 704-0082 • [@ryanesc](https://twitter.com/ryanesc) • [Github](https://github.com/ryane) • [ryaneschinger.com](http://ryaneschinger.com/)

## Experience

2019-Present

**Senior Software Engineer** [**MasterCard**](https://www.mastercard.us/en-us.html) (New York, NY)

* Core member of a team responsible for designing and implementing a modern Infrastructure API. Automated the provisioning of on-premise virtual machines, network resources, and load balancers with [Kubernetes CRDs](https://kubernetes.io/docs/concepts/extend-kubernetes/api-extension/custom-resources/) and custom [controllers](https://kubernetes.io/docs/concepts/architecture/controller/).
* Chief architect of an internal tool that simplified [Kubernetes](https://kubernetes.io/) onboarding for developers. Built a user-friendly interface and [GitOps](https://www.weave.works/blog/what-is-gitops-really) pipelines that concealed the complexity of the underlying Kubernetes platform and allowed for baked-in best practices and enforcement of security policies.
* Provided guidance and delivered code to help migrate on-premise virtual machine deployments to [Microsoft Azure](https://azure.microsoft.com/en-us/).

2008-2019

**Founder** [**Jossware LLC**](http://ryaneschinger.com/) (Brooklyn, NY)

*Jossware is a software consultancy providing in-depth consulting, training, and development services to a variety of companies, with a focus on cloud-native technologies, programmable infrastructure, DevOps, and application development.*

* Consulted for a financial services enterprise on cloud migration, [Kubernetes](https://kubernetes.io/), service mesh, and other cloud native technologies. Evaluated options, developed proof of concepts, and helped build and operationalize an on-premise Kubernetes platform.
* [Kubernetes](https://kubernetes.io/) platform engineer for several international companies on different cloud platforms ([AWS](https://aws.amazon.com/), [GCP](https://cloud.google.com/)). Delivered cloud environments as code via [Terraform](https://www.terraform.io/), operationalized Kubernetes with logging, monitoring, security, and service mesh capabilities, and built [GitOps](https://www.weave.works/blog/what-is-gitops-really)-powered continuous delivery pipelines for application deployments.
* Embedded with a cloud architecture team in an enterprise that delivers accounting and HR software solutions. Mentored team, provided guidance, and delivered code to help migrate a legacy, VM-based architecture to a modern architecture based on [Docker](https://docker.com/) and [Kubernetes](https://kubernetes.io/) and running in [AWS](https://aws.amazon.com/).
* Developed software for an early stage ad-tech startup. Built [Go](https://golang.org/)-based microservices to handle analytics and billing in an event-driven architecture. Also responsible for the cloud infrastructure, using [Google Cloud](https://cloud.google.com/) and [GKE](https://cloud.google.com/kubernetes-engine/).
* Core contributor and release manager for [Mantl](https://github.com/mantl/mantl) and its ecosystem of supporting APIs and tools. Mantl integrated technologies like [Docker](https://docker.com/), [Mesos](https://mesos.apache.org/), and [Kubernetes](https://kubernetes.io/). Built with [Terraform](https://www.terraform.io/), [Ansible](https://www.ansible.com/), [Go](https://golang.org/), and supported on various cloud platforms like [AWS](https://aws.amazon.com/), [GCP](https://cloud.google.com/), and [DigitalOcean](https://www.digitalocean.com/).
* Contributor to various open-source projects, both individually and sponsored ([Cisco](https://www.cisco.com/) and [Joyent](https://www.joyent.com/)).

2006-2008

**Solutions Developer** [**Avanade**](https://www.avanade.com/en) (New York, NY)

* Member of the core architecture team that created mobile applications for the U.S. Census Bureau.

1999-2006

**Operations Developer** [**NTT/VERIO**](https://www.verio.com/) (Boca Raton, FL)

* Senior developer, team lead, and principal technical liaison on development of Windows-based products for a large, internationally distributed web hosting network.

## Technical Experience

**Programming Languages, Frameworks and Technologies**: [Go](https://golang.org/), [Javascript](https://www.javascript.com/)/[Typescript](https://www.typescriptlang.org/), [React](https://reactjs.org/), [Ruby](https://www.ruby-lang.org/en/) / [Ruby on Rails](https://rubyonrails.org/), [Terraform](https://www.terraform.io/), [Ansible](https://www.ansible.com/)

**Cloud native technologies**: [Kubernetes](https://kubernetes.io/), [Docker](https://docker.com/), [Prometheus](https://prometheus.io/), [Thanos](https://thanos.io/), [EFK](https://platform9.com/blog/kubernetes-logging-and-monitoring-the-elasticsearch-fluentd-and-kibana-efk-stack-part-1-fluentd-architecture-and-configuration/) stack, [Istio](https://istio.io/), [Tekton](https://cloud.google.com/tekton), [Argo](https://argoproj.github.io/), [Envoy](https://www.envoyproxy.io/), [Helm](https://helm.sh/), [Knative](https://knative.dev/)

**Cloud platforms**: [AWS](https://aws.amazon.com/), [GCP](https://cloud.google.com/), [Azure](https://azure.microsoft.com/en-us/), [DigitalOcean](https://www.digitalocean.com/), and [Heroku](https://www.heroku.com/)

Active Open Source [contributor](https://github.com/ryane).

## Education

*Bachelor of Business Administration, Management Information Systems*

University of Florida (Gainesville, FL), Florida Atlantic University (Boca Raton, FL)

## Speaking Engagements

* *Repeatable and standardized Kustomize based deployments* (Co-speaker, [CNCF End User Partner Summit](https://kccncna19.sched.com/event/U1VJ/cncf-end-user-partner-summit-additional-registration-fee-required)
* *Converge: Apply Graphs to your Servers* (Co-speaker, [Strangeloop 2016 Unsession](https://github.com/strangeloop/StrangeLoop2016/wiki/Unsessions))
* *Introducing Cloud Development with Project Shipped and Mantl* (Co-speaker, Cisco Live Berlin 2016)
* *Introducing Cloud Development with Mantl* (Co-speaker, Cisco Live Cancun