

Ryan Eschinger

Software engineer specializing in Kubernetes and cloud-native technologies.

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Experience

2019-Present *Senior Consultant Software Engineering* **MasterCard** (New York, NY)

- Core member of a team responsible for designing and implementing a modern Infrastructure API based on **Kubernetes CRDs** and custom **controllers**.
- Chief architect of an internal tool to simplify the developer experience when onboarding onto **Kubernetes**.
- Provided guidance and support for a migration from an on-premise platform to **Azure**.

2008-2019 *Founder* **Jossware LLC** (Brooklyn, NY)

Software consultancy focused on cloud-native technologies, DevOps, custom software integrations, and application development.

- Provided in-depth consulting, training, and development services to a range of companies in the realms of container technologies, programmable infrastructure, and DevOps.
- Consulted with a financial services enterprise on cloud migration, **Kubernetes**, service mesh, and other cloud native technologies. Evaluated options, developed proof of concepts, and helped build and operationalize an on-premise Kubernetes platform.
- Embedded with a cloud architecture team in an enterprise delivering 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 and Kubernetes and running in **AWS**.
- Software development for an early stage ad-tech startup. Built Go-based microservices to handle analytics and billing in an event-driven architecture. Also responsible for the cloud infrastructure using **Google Cloud** and **GKE**.
- Core contributor and release manager for **Mantl**, a modern platform for deploying microservices, and its ecosystem of supporting APIs and tools. Mantl integrates technologies like **Docker**, **Mesos**, and **Kubernetes**. Built with **Terraform**, **Ansible**, **Go**, and supported on various cloud platforms like **AWS**, **GCP**, and **DigitalOcean**. Worked in all layers of the stack and primary developer of the Go API. Sponsored by Cisco.
- Extended the **Terraform Docker provider** to fully support the **Triton Docker Remote API**. Sponsored by Joyent.
- Contributor to **Converge**, an open-source, API-first configuration management tool built using Go and gRPC and powered by a graph engine.

- Provided software consulting and development services to companies such as **Checkmate** (built an algorithmic pricing system, inventory and optimization platform, and several 3rd-party API integrations), **Mamajamas** (built and maintained the application and distributed web infrastructure), and **Open Places** (provided application development and infrastructure automation).
- Consulted on other application development and DevOps projects for companies large and small.
- Experienced working remotely with teams around the world, as well as on-site.

2006-2008

Solutions Developer **Avanade** (New York, NY)

- Solution Developer for a global IT consulting company co-owned by Microsoft and Accenture.
- Member of the core architecture team that created a mobile field data collection application for the U.S. Census Bureau. Served as the lead designer and developer of several critical components on the Windows Mobile handheld device including biometric authentication, data synchronization, network connectivity, and security auditing. Other responsibilities included design, documentation, training and support.
- Sole designer and developer of a Mobile Survey Solution application which demonstrated several core features that would be useful in a mobile workforce application. For example: an extensible survey engine, time and expense reporting, text messaging, mapping and GPS integration, and reporting.
- Technical lead on a mobile consignment inventory application, which allowed customers to scan receipt and usage of goods and manage inventory. Managed a team of 5 developers to build the Windows Mobile based application and supporting WCF-based web service.

1999-2006

Operations Developer **NTT/VERIO** (Boca Raton, FL)

- Senior developer and 8-person team lead on the development of Windows-based web hosting products. Contributed to the internal hosting platform provisioning and monitoring systems as well as customer-facing ASP.NET web control panels that provided tools such as SSL certificate self management, user management, IIS configuration, and custom application installation.
- Part of a team responsible for successful operations of a large, distributed web hosting network spanning multiple geographic regions, including 3 continents.
- Duties included: security, monitoring, product evaluation and deployment, tool development, automation of common tasks and routine maintenance, and change management of hardware and software upgrades.
- Served as the principal technical liaison between the Windows development group and the operations group and played an essential role in designing and managing product enhancements, additions and upgrades.

Technical Experience

Open Source

Active open source **contributor**.

Programming Languages and Technologies

go: Since 2015, I have been building various CLIs, APIs, and other systems integration software in [Go](#).

Javascript / Typescript: Written a large amount of Javascript for frontend-web applications. Experience with [React](#) and other frameworks.

Ruby: Extensive experience building web applications (in [Ruby on Rails](#)) and CLIs.

Infrastructure automation and configuration management tools such as [Terraform](#), [Ansible](#), and [Chef](#).

Container technologies and orchestration platforms such as [Docker](#), [Kubernetes](#), and [Mesos](#)

Cloud platforms and their supporting APIs and tools including [AWS](#), [GCP](#), [Azure](#), [DigitalOcean](#), and [Heroku](#).

Some competence with **Python**, **C**, and **Clojure**

Education

Bachelor of Business Administration, Management Information Systems

Florida Atlantic University (Boca Raton, FL)

University of Florida (Gainesville, FL)

Talks

- *Repeatable and standardized Kustomized based deployments** (Co-speaker, [CNCF End User Partner Summit](#)*)
 - *Converge: Apply Graphs to your Servers* (Co-speaker, [Strangeloop 2016 Unsession](#))
 - *Introducing Cloud Development with Project Shipped and Mantl* (Co-speaker, Cisco Live Berlin 2016)
 - *Introducing Cloud Development with Mantl* (Co-speaker, Cisco Live Cancun 2015)
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