

# Erik Rasmussen

Software Engineer | Des Moines, IA

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## Summary

Open-source enthusiast from Des Moines with a decade of experience developing cloud-native solutions and line-of-business enterprise applications. Hobby sysadmin with a passion for functional programming, software architecture, and language design.

## Education

University of Wisconsin Platteville  
B.S. IN SOFTWARE ENGINEERING

*Platteville, Wisconsin*  
Sep. 2013 - Dec. 2017

- Dean's Honours List

## Stack

- **Languages:** Go, TypeScript, C#, F#, Rust, Haskell, C, C++, Java
- **Technologies:** Kubernetes, Pulumi, Terraform, React (Native), Angular, Tailwind, .NET Aspire, Azure, AWS, GNU Make
- **Certifications:** Certified Kubernetes Application Developer (CKAD), Certified Kubernetes Administrator (CKA)
- **Interests:** DevOps, Linux, compilers and language design, code generation, polyglot applications, event-driven architecture

## Personal Projects

*All projects are hosted on GitHub*

- **unmango/go-make:** Makefile AST and parser in Go.
- **pulumiverse/pulumi-talos:** A Pulumi provider for Talos provisioning.
- **unmango/pulumi-baremetal:** A Pulumi provider for baremetal provisioning using a gRPC client/server model.
- **the-cluster:** Homelab infrastructure using Pulumi.
- **unmango/cloudflare-operator:** A kubernetes operator and ingress controller for Cloudflare resources.
- **advent-of-code:** Advent of Code solutions in various languages.
- **CliWrap.FSharp:** F# bindings for CliWrap.

## Experience

### Source Allies

Principal Consultant

*Urbandale, IA*  
Aug. 2020 - Present

- Developed custom Kubernetes operators using Go to automate application team infrastructure provisioning.
- Administered 60+ node Kubernetes clusters spanning from on-premise Nutanix and VMware hardware to AWS virtual machines.
- Maintained efficient and re-usable CI/CD pipelines for application delivery teams.
- Architected large scale data pipelines in Azure supporting genome comparisons and other agricultural research.
- Migrated legacy Windows line-of-business application workloads to cloud-native Azure solutions.
- Built a rewards platform in Azure with ASP.NET and GraphQL supported by React Native mobile and web applications.
- Analyzed iOS and Android application performance and introduced automated benchmarking into the development lifecycle.

### Kum & Go

Application Developer

*Des Moines, IA*  
Jan. 2018 - Aug. 2020

- Developed a food ordering management solution to support store associates completing orders submitted via mobile and web applications.
- Built automated CI/CD pipelines on Azure Pipelines for application deployment.
- Designed and implemented the service architecture for a cloud based enterprise food menu management solution in Azure.
- Migrated legacy .NET applications to cloud-native ASP.NET and .NET Core on Azure.

### Principal Financial Group

Application Developer Intern

*Des Moines, IA*  
Jun. 2017 - Aug. 2017

- Performed application feature development supporting the underwriting process.
- Introduced new integration testing practices for Java REST APIs using mock REST clients and re-usable Docker test environments.
- Refactored and re-structured legacy insurance policy applications to improve overall system performance.
- Deployed automated CI/CD pipelines for Java Spring web services on WebSphere using Jenkins.

### Kum & Go

Application Developer Intern

*West Des Moines, IA*  
Jan. 2016 - May 2017, Sep. 2017 - Dec. 2017

- Implemented a customer data management tool for the Customer Relations team built on AngularJS and backed by an ASP.NET REST API.
- Automated processes for updating and managing customer rewards program information.