

a business focused,  
collaborative, hands-on,  
multi-language tech lead,  
architect, and large system  
builder.

## COUNT ON ME TO

create sustainable software,  
bring all voices to the process,  
facilitate and mentor, embody  
compassion, and use the best  
of Agile/XP.

## RELEVANT SKILLS

- Go
- AWS, SNS/SQS
- Postgres/SQL
- Kafka
- API+REST
- Docker/Kubernetes
- Distributed Systems
- Linux

## EDUCATION

31+ years of practical industry  
experience and continuous  
self-directed learning

## INTERESTS

systems • emergence • math  
geek joy • making • algorithms  
nonviolent communication  
open source software

## OPEN SOURCE

- parinfer-rust
- Idris
- Bigloo
- gambit-objc
- rep
- kak-ansi

## CONTACT

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 [github.com/eraserhd](https://github.com/eraserhd)

[topcoder.com/eraserhd](https://topcoder.com/eraserhd)

📍 Euclid, Ohio, USA

🕒 Eastern (UTC-4/UTC-5)

## PRINCIPAL ENGINEER



## EXPERIENCE

**PRINCIPAL ENGINEER** at 2U

2016-2025

- ◇ Rearchitected 60+ services from an acquired company incrementally for horizontal scaling and blue/green deploys. Introduced CI/CD and enabled teams to deploy independently.
- ◇ Automated onboarding of new universities using a functional tech stack with a Datalog-based rules system.
- ◇ Built and maintained serverless integrations synchronizing systems
- ◇ Revamped a critical, aging, MySQL-backed near-realtime data cache by improving the schema and optimizing code
- ◇ Guided the organization's technical direction

## SOFTWARE ENGINEER IV at Groupon

2013-2016

- ◇ Maintained A/B testing software
- ◇ Wrote whitepaper providing clear analysis which broke a delivery-limiting stalemate between tech and purchasing
- ▶ Designed and wrote Points, a new customer retention program
- ▶ Delivered a new homepage, allowing better user targeting

## IOS & ANDROID DEVELOPER at *LeanDog*

2011-2013

- ◇ Wrote, maintained, and coordinated customer-focused iOS and Android apps
- ◇ Pioneered early testing methods and CI/CD for mobile
- ◇ Collaborated on a fully cross-functional team

## SOFTWARE ENGINEER at Blue Frog Gaming

2010-2011

- ◇ Designed, delivered, and maintained games for the newly-released iPad

## SENIOR SOFTWARE ENGINEER at *Micros Retail*

2007-2010

- ◇ Maintained DAS and XPay credit authorization systems
- ◇ Implemented processes dramatically reducing delivery failures

**CHIEF TECHNOLOGY OFFICER** at *Cronosys, LLC*

2000-2007

- ◇ Created internal business apps using novel web technologies before it was cool
- ▶ Consulted, quoted, and delivered many projects on many tech stacks

**CONSULTANT** at *The Baldwin Group*

1997-2000

- ◇ Consulted on PC-related issues
- ◇ Maintained Mayor's Court software

## PROGRAMMER/ANALYST at DataVantage

1994-1997

- ◆ Automated third shift data communications
- ◆ Wrote new cross-platform credit authorization system installed in thousands of retail locations
- ◆ Maintained point-of-sale software installed in thousands of retail locations