

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

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

- Credit+Payment Networks
- Distributed Systems
- Microservices
- Kafka
- AWS Services
- AuroraDB
- Golang
- Java
- Python

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

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

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

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**PRINCIPAL ENGINEER** at 2U 2016–2025

- ◇ Analyzed code for 60+ services from an acquired company and incrementally rearchitected 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