

# SAM UMBACH

Functional Programmer

## Experiences

2025  
|  
2023

### Director of Engineering

BroadPeak Partners

 (remote)

- Led hiring, onboarding, and growth of a 5-person engineering team.
- Delivered major product features (Okta/Auth0 SSO, international exchange integrations).
- Instituted performance reviews, training program, and bandwidth planning model.

2023  
|  
2017

### Senior Software Engineer

BroadPeak Partners

 New York, NY / (remote)

- Architected K3 web client using ClojureScript, React, Material UI, D3, and Tree-sitter.
- Built and maintained integrations with financial exchanges (ICE, CME, Nodal, B3, etc.)
- Designed and developed data integrations (HTTP, web sockets, Kafka, FIX, Snowflake, etc.)
- Advocated and implemented robust automated testing across frontend and backend systems: clojure.test, test.check, stateful-check, and Docker + Cypress
- Collaborated with operations and sales on solution design, implementation, support, and customer service.

2017  
|  
2016

### Senior Software Engineer

Eligible.com

 Brooklyn, NY

- Led frontend development for payer lookup and eligibility widget (TypeScript, React, Redux).

2016  
|  
2010

### Software Engineer

Cognitect

 Durham, NC / (remote)

- Full stack development in Clojure/ClojureScript and Ruby on Rails across domains (clinical research, commodities trading, daily deals).
- Integrated Datomic, Neo4J, Microsoft Deep Zoom, and other advanced tech stacks.

2010  
|  
2007

### Software Engineer

EA Sports

 Morrisville, NC

- Game development (C/C++) for Nintendo, PlayStation 2/3, Xbox 360, specializing in animation and physics.
- Pioneered on-console test automation and continuous integration at EA Sports.
- Delivered five titles, including Nintendo 3DS launch titles FIFA Soccer '12 and Madden NFL Football

2007

### Software Engineer

Raritan Computer


 Raleigh, NC

- Web application developer and Linux systems integration specialist: Java servlets, JSP, Python, rpm.

2006  
|  
2003

### Software and Network Engineer

SciMed Solutions

 Durham, NC

- Development, technical design, build automation, systems and network administration.

2003  
|  
2001

### Software Developer (Intern)

Palisade Systems

 Ames, IA

- Responsible for PacketPup products providing network protocol monitoring and filtering from a Windows GUI.

2001  
|  
1999

### Financial Services Intern

International Computer Operating Networks

 McLean, VA

- Software utilities programmer and data repair and migration expert for an accounting software reseller.

## Business Ventures

2014  
|  
2008

### Co-founder

reviewshine.com

- Digital press kit and publicity platform, connecting musicians with podcasters and bloggers.

## Education

2003

### B.S. Computer Engineering, Mathematics

Iowa State University

- Honor's Program Mentor, Student Ambassador

## Contact Info

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 919.698.2436

## Skills

Functional Programming

Mentorship

Automation

Software Testing

Networking

## Technologies

Clojure

ClojureScript

React

JavaScript

Java

Ruby

SQL

Kafka

Docker