

# SEAN LYONS

📍 Austin, TX

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## EXPERIENCE

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### Tech Lead

*Favor*

Nov 2022 - Present

*Austin, TX*

- Architected improvements to Elasticsearch result relevancy to improve top of funnel CTR by 10%
- Spearheaded implementation of an ML content recommendation pipeline, boosting revenue and improving conversion rate
- Designed a new ecommerce platform, resolving long-standing technical debt and enabling product personalization
- Collaborating with product teams to influence roadmaps across a team of 30 engineers
- Mentoring engineers day-to-day through pair programming and design processes

### Senior Software Engineer

*Amazon Web Services*

Jul 2021 - Nov 2022

*Austin, TX*

- Shipped software for an AWS service ingesting petabytes of data daily with 99.9% availability
- Operated in the on-call rotation for Amazon Managed Prometheus
- Built custom Kubernetes controllers in Golang to speed up global multi-AZ deployments by 60%<sup>1 2</sup>
- Contributed to OpenSearch Auto-Tune sharding architecture in Java and Kotlin, improving deployment scalability and reliability

### Senior Software Engineer

*Symbiont*

Sep 2018 - Jul 2021

*New York, NY*

- Led implementation of a proprietary distributed database capable of handling 10k transactions per second in Golang
- Reduced CI pipeline runtime by 75% with Bazel and improved testing practices

### Senior Site Reliability Engineer

*iHeartRadio*

Mar 2018 - Sep 2018

*New York, NY*

- Migrated company to new AWS infrastructure observability platform based on Prometheus and Grafana
- Adopted Kubernetes-based deployment architecture for business-critical audio streaming infrastructure

### Senior Full Stack Software Engineer

*Commonbond*

Mar 2016 - Mar 2018

*New York, NY*

- Managed a team of 3 contracted engineers
- Designed and implemented Java Spring Boot services deployed on Kubernetes
- Contributed to React product UI

### Full Stack Software Engineer

*FactSet*

Jan 2015 - Mar 2016

*New York, NY*

- Implemented AngularJS-based product UX and Java services for a financial news aggregator

### Software Engineering Intern

*MathWorks*

Jun 2013 - Aug 2014

*Natick, MA*

- Built fixed-point math library utilities in C++, improving developer experience

## EDUCATION

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University of Texas at Austin, M.S. in Computer Science

Sep 2024 - Present

Clarkson University, B.S. in Computer Science & Mathematics

Sep 2010 - Dec 2014

## TECHNICAL SKILLS

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<sup>1</sup><https://aws.amazon.com/blogs/opensource/speed-up-highly-available-deployments-on-kubernetes/>

<sup>2</sup><https://github.com/aws/zone-aware-controllers-for-k8s>

**Databases:** PostgreSQL, Elasticsearch, MongoDB, Redis

**Frameworks:** Spring Boot, Node.js, React, Expo

**Tools & Platforms:** AWS, Kubernetes, Docker, Prometheus, Terraform

**Skills:** Leadership, Service-oriented Architecture, API Design, A/B Testing

**Languages:** Kotlin, Java, Golang, Python, PHP, Typescript, SQL