

# Ethan Marshall

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## SUMMARY

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Accomplished Principal Software Engineer with over 12 years of proven expertise in designing and delivering enterprise-scale applications, specializing in Java and AWS frameworks. Mastered building microservices architectures, RESTful APIs, and event-driven solutions that meet rigorous performance standards. Actively engage with cross-functional teams to define architectural visions, product strategies, and secure compliant systems. Recognized for driving technical initiatives that bolster reliability, scalability, and developer productivity while mentoring teams and nurturing future leaders. A collaborative partner dedicated to not only meeting but exceeding the needs of both customers and stakeholders across diverse engineering ecosystems.

## EXPERIENCE

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### Principal Software Engineer

June 2015 - Present

Tech Solutions Corp

Chicago, IL

Lead design and implementation of cloud-first services on AWS, shaping architecture favorable for accessibility and efficiency.

- Develop high-performance microservices using Java, engaging with various stakeholders to ensure alignment with business objectives.
- Mentor team members, cultivating their growth and ensuring strategic execution within agile environments.
- Collaborate closely with DevOps and Security teams to create safe, scalable, and compliant system infrastructures.
- Drive ongoing modernization efforts that enhance system performance and align technology with consumer needs.

### Senior Software Engineer

April 2012 - May 2015

Innovative Financial Technologies

Chicago, IL

Contributed technical leadership by developing scalable solutions to optimize financial transaction processes and reporting.

- Designed complex RESTful APIs supporting financial operations while ensuring strict adherence to compliance standards.
- Led cross-team collaboration to introduce CI/CD practices, enhancing deployment efficiency through automated pipelines.
- Implemented microservices-based architecture, resulting in an adaptable solution enabling rapid business changes.
- Facilitated workshops for junior engineers, sharing knowledge on architecture best practices and modern development methodologies.

### Software Engineer

January 2010 - March 2012

NextGen Innovations

Chicago, IL

Engineered software solutions focused on backend development, enhancing functionality, speed, and reliability.

- Worked with project management to translate user requirements into scalable application features.
- Streamlined legacy code processes, increasing automation and simplifying maintenance tasks.
- Utilized modern frameworks such as Spring Boot and Hibernate to improve application performance metrics.
- Planning, deploying, and monitoring SQL databases to support dynamic data-driven applications.

## PROJECTS

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### Cloud Application Migration

August 2023

Spearheaded a project transitioning core applications from on-prem infrastructures to AWS Cloud, significantly reducing operational costs and enhancing system availability.

### Microservices Architecture Deployment

March 2023

Redesigned existing monolithic applications into microservices, improving the deployment cycles and allowing for holistic feature updates without downtime.

## LEADERSHIP & AWARDS

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- Recipient of 'Outstanding Technical Leadership Award' for leading groundbreaking projects that transformed company tech stack.
- Awarded 'Engineer of the Year' in recognition of excellence in software design and substantial contributions to team success.

## EDUCATION

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### Master's Degree in Computer Science

2012

University of Illinois GPA: 3.8

Chicago, IL

**Coursework:** Software Development, Cloud Computing, Data Structures, Algorithms

### Bachelor's Degree in Computer Science

2010

University of Illinois GPA: 3.6

Chicago, IL

**Coursework:** Software Engineering, Database Management, Operating Systems, Networking

## CERTIFICATIONS

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- AWS Certified Solutions Architect 2021
- Java SE 11 Developer 2020

## TECHNICAL SKILLS

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- **Development Methodologies:** Agile, Scrum, LEAN
- **Database Technologies:** Oracle PL/SQL, NoSQL
- **Cloud Platforms:** AWS, Google Cloud, MS Azure
- **Frameworks & Tools:** Spring Boot, JUnit, Docker
- **Version Control:** Git, SVN
- **CI/CD Tools:** Jenkins, Maven, Chef
- **Messaging Systems:** Kafka, JMS, Tibco EMS
- **Monitoring Tools:** AppDynamics, Splunk, Zabbix
- **Operating Systems:** Windows, Linux
- **Scripting Languages:** Python, Bash

## SKILLS

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- Java
- AWS
- Docker
- Microservices
- Kafka
- Spring Boot
- RESTful APIs
- CI/CD Pipelines
- Agile
- Data Structures
- Python
- SQL
- JDBC
- JUnit
- Git
- Kubernetes

## PROFESSIONAL AFFILIATIONS

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- Member of the Association for Computing Machinery, engaging in community stay relevant with the latest technological advancements.
- Active contributor to local software development meetups, providing mentorship, training sessions, and talks on microservices architecture.

## LANGUAGES

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- English (Native)
- Spanish (Intermediate)

## ADDITIONAL INFORMATION

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**Work Status** : Authorized to work in United States. No sponsorship required.

## REFERENCES

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AVAILABLE ON REQUEST