# Sean Coughlin

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## SUMMARY

Dynamic Software Engineer with over two years of experience at Discover Financial Services and a Master of Computer Science from the University of Illinois Urbana-Champaign. Specializes in full-stack development with expertise in Java, JavaScript, and React. Proven ability to lead critical application redesigns, improve system performance, and deploy high-impact features to millions of users.

## EXPERIENCE

**Discover Financial Services**                                                               **Riverwoods, IL**
*Senior Associate Software Engineer*                                               *February 2024 - Present*
**Discover Home Loans**
- Engineered a complete redesign of the Discover Home Loans application portal handling over $7 billion in loan originations using React and Redux
- Coached six new engineering hires and an intern through their first ninety days at the company, boosting onboarding efficiency and talent retention

*Associate Software Engineer*                                               *February 2023 - February 2024*
**Discover Home Loans**
- Authored the internal migration guide for Create React App to Vite, viewed by over 1,000 developers, enabling multiple organizations to shift their frontend build processes
- Designed and implemented a unified pipeline deployment process and automated Playwright testing architecture for fifteen microservices, improving efficiency and reliability
- Migrated a microservice handling 10,000 monthly calls to AWS from an on-premises data center deployment, enhancing scalability and performance

*Associate Software Engineer*                                               *February 2022 - February 2023*
**Discover Card Acquisitions**
- Drove the development of a multi-factor credit card application process for mobile devices, scaling to over 20,000 customers daily
- Implemented a new caching process that increased customer security for 600,000 customers a month
- Delivered standardized React components that shortened delivery timelines across three teams by one month
- Improved static content deployment procedures, reducing installation errors by 30%
- Programmed an internal credit card application portal, streamlining internal processes for 70 agents monthly

## EDUCATION

**University of Illinois Urbana-Champaign**                                         **Champaign, IL**
*Master of Computer Science*                                                                       *July 2024*
*Specialization in Software Engineering and Cloud Computing*
*GPA: 3.95*

**University of Illinois Urbana-Champaign**                                         **Champaign, IL**
*Bachelor of Science* in Computer Science, Minor in Economics                *December 2021*
*GPA: 3.88, High Honors*

## ADDITIONAL INFORMATION

**Programming Languages:** JavaScript, TypeScript, Java, Python
**Technologies and Frameworks:** React, Spring Boot, SQL, Git, Playwright and Cucumber testing, Jira, AWS, OpenShift, CI/CD (GitHub/Jenkins/Artifactory/Nexus)
**Personal Projects:** Authored a software engineering blog with over 40,000 views
**Awards:** Discover President's Award for leadership (awarded annually to 2.5% of employees)
**Volunteer Experience:** Elementary school tutor for Tutoring Chicago
**Interests:** Mountain climbing, hiking, rock climbing, book clubs