

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 in progress from the University of Illinois Urbana-Champaign. Specializes in full-stack development with expertise in Java, JavaScript, and React. Proven track record in leading the redesign of critical applications and deploying features to millions of customers.

EXPERIENCE

Discover Financial Services

Riverwoods, IL

Associate Software Engineer

February 2022 - Present

Discover Home Loans

- Engineered a complete redesign of the Discover Home Loans application portal that handles billions in originations using React and Redux
- Authored an internal migration guide for Create React App to Vite that was viewed over 450 times and allowed multiple teams to shift their frontend build process
- Designed a common pipeline deployment process and automated Playwright testing architecture for fifteen microservices
- Migrated one microservice to AWS from an on-premises data center deployment
- Coached six new engineering hires through their first ninety days at the company and furthered talent recruiting efforts through panels and networking events

Card Acquisitions

- Drove the development of a multi-factor credit card application process, reducing required user inputs by 50%
- Implemented a new caching process increasing customer security for 600,000 customers a month
- Delivered standardized React components that shortened project delivery dates by one month
- Improved static content deployment processes that reduced installation errors by 30%
- Advanced a weekly release cadence for eight microservices and resolved production errors while on-call

EDUCATION

University of Illinois Urbana-Champaign

Champaign, IL

Master of Computer Science

July 2024

Specialization in Software Engineering and Systems and Networking

GPA: 3.94

University of Illinois Urbana-Champaign

Champaign, IL

Bachelor of Science in Computer Science, Minor in Economics

December 2021

GPA: 3.88 and High Honors

ADDITIONAL INFORMATION

- Programming Languages: Java, JavaScript/TypeScript, Python
- Technologies and Frameworks: React, Spring Boot, SQL, Git, Playwright/Cucumber testing, Jira, AWS/OpenShift, CI/CD (Jenkins/Artifactory/Nexus)
- Personal projects: Writing a software engineering blog that currently has 73 articles and over 30,000 views
- Awards: Nominated for the Discover President's Award for achieving beyond current level of experience (most prestigious award at Discover Financial Services)
- Volunteer experience: Tutoring Chicago
- Interests: Mountain climbing and hiking, rock climbing, book clubs