

Sebastian Flores

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WORK EXPERIENCE

Capital One (formerly Discover Financial Services)

August 2022 - Present

Software Engineer | May 2025 - Present

Remote

- Modernized a critical legacy provisioning system by designing and implementing a cloud-based microservice with Java Spring Boot and PostgreSQL.
- Enhanced system performance and scalability, reducing response times from 1.4s to 0.8s (well below a 2s SLO) while supporting over 100k daily users.
- Improved reliability and performance by designing and executing unit, component, and performance tests to validate functionality and maintain strict SLOs during feature delivery.
- Executed major out-of-place PostgreSQL database upgrades using pglogical, ensuring minimal downtime and seamless data replication during migrations.
- Monitored production services through Datadog and Kibana logging, proactively debugging issues during deployments, and collaborating with Apple to meet partner SLAs and quality standards.

Software Engineer | January 2024 - May 2025

Remote

- Built full-stack onboarding tools using React, Next.js, and Node.js, collaborating with UX designers and product owners to deliver clean, intuitive UIs for business users.
- Involved in database, architecture, and system design decisions integral to the advancement of our application to be ready for the future scalability effort in regards to onboarding products and partners to our platform.
- Utilized OpenShift's Cloud Platform, Kubernetes, and Blue/Green deployments to optimize availability, efficiency, and scalability for production and non-production environments.
- Designed and deployed REST APIs and dynamic form-driven workflows to collect, validate, and scale user data across multiple environments.
- Administered CI/CD pipeline deployments to our production environment, creating necessary change tickets and following correct company procedures to minimize risk.
- Provided newly onboarded Engineers with necessary documentation, knowledge transfers, and stories to become accustomed to the application through their first 90 days.

Senior Associate Software Engineer | September 2023 - January 2024

Riverwoods, IL

- Responsible for improving our platform's back-end and front-end to support onboarding multiple products with minimal technical debt.
 - **Key Results:** Reduced onboarding time from 5 months to 1 month; onboarded 12 new products.
- Developed Node.js back-end APIs that communicate with our database for seamless CRUD operations on product information.
- Developed custom PostgreSQL migration scripts to efficiently seed the database with product data, ensuring accurate and consistent data initialization across environments.

Associate Software Engineer | August 2022 - September 2023

Riverwoods, IL

- Developed client-facing and back-end services for Discover's API developer portal that improves the user's experience using PHP, SCSS, and Drupal as a content-management system.
- Mentored an intern to create interactive data visualizations using React.js by connecting to our API Gateway, allowing partners to explore and understand key metrics in regards to their applications and APIs.

EDUCATION

Villanova University

May 2022

Bachelor of Science in Computer Science

Villanova, PA

- **GPA: 3.57** | Cum Laude | 5x Dean's List | Hispanic Scholarship Fund Recipient/Scholar

CERTIFICATIONS

Certified Cloud Practitioner, Amazon Web Services

July 2025