

# Diego Simonelli

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**Software Engineer | Data Engineering | GenAI Automation | Cloud & Backend Systems**

## SUMMARY

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Software Engineer with 4+ years of experience building automation, enterprise data workflows, backend services, and cloud systems. Strong in Python, Java, Groovy, JavaScript/React, SQL, AWS, OpenSearch, PostgreSQL, CI/CD, production support, and GenAI/LLM workflow automation. Experienced turning manual enterprise processes into reliable tools and supporting secure DEV, QA, and PROD environments.

## TECHNICAL SKILLS

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**Languages:** Python, Java, JavaScript, Groovy, SQL, Shell, HTML, CSS  
**Frameworks / APIs:** React, Node.js, REST APIs, OpenAPI Specification, JSON processing  
**Data:** PostgreSQL, MongoDB, OpenSearch, enterprise data mapping, schema analysis, Common Data Model alignment  
**Cloud / DevOps:** AWS S3, SNS, SQS, Lambda, Fargate, Jenkins, Git, CI/CD, infrastructure as code, cross-region resiliency  
**Quality / Security:** Unit testing, JMeter, failover testing, Checkmarx, vulnerability remediation  
**Tools:** Jira, Confluence, Git, ServiceNow, Agile/Scrum, Windows, macOS, Linux, GenAI prompt engineering, LLM automation

## PROFESSIONAL EXPERIENCE

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### Accenture - Software Engineer / Tech Architecture Specialist | Tampa, FL | Feb 2022 - Present

#### Data Engineer | Nov 2025 - Present

- Analyzed enterprise data entities to identify reusable components, improve standardization, and strengthen governance across internal modeling tools.
- Converted data elements into reusable internal assets and developed AI-assisted automated test scripts to improve repeatability and tool reliability.

#### Full Stack Engineer / GenAI Data Mapping Engineer | Apr 2024 - Nov 2025

- Built Python-based LLM automation to analyze database structures and generate clear, contextual schema descriptions for enterprise data documentation.
- Designed an automated mapping recommendation process to match source-system fields to a target Common Data Model, improving consistency and reducing manual review effort.
- Processed OpenSearch API responses to extract metadata, merge complex nested JSON dictionaries, and prepare outputs for downstream automation.
- Designed a Python/Groovy converter that transforms processed metadata into OpenAPI Specification schemas with correct data types, arrays, nested objects, and generated descriptions.

#### DevOps & Backend Engineer | Jun 2023 - Apr 2024

- Developed AWS infrastructure components including S3, SNS, SQS, Lambda, and Fargate using infrastructure-as-code practices.
- Built Java/PostgreSQL logic for AWS service workflows and implemented cross-region resiliency rerouting with failover tests for Java APIs.
- Used Jenkins to build, test, and deploy applications; created unit tests and JMeter performance tests for Java services.

#### Production Support Engineer / Software Developer | Mar 2022 - Jun 2023

- Owned production support for automated daily, nightly, and overnight workflows, triaging failures and helping restore service stability.
- Developed Python scripts/tools, executed test plans, debugged issues, and remediated Python/Java security vulnerabilities across DEV, QA, and PROD.

#### Tata Consultancy Services - Identity and Access Management Engineer | Remote | Mar 2021 - Feb 2022

- Processed application/system access requests in ServiceNow while maintaining SLA expectations for incidents and service requests.
- Partnered with Security and Audit teams to administer user accounts, system configurations, Active Directory workflows, onboarding, terminations, and escalations.

## EDUCATION

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University of Florida - B.S. Computer Science | Gainesville, FL | Graduated Dec 2020 | Bilingual: English/Spanish