

Cecilia Simpson

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SUMMARY

Full stack and **AI solutions developer** with four years of experience building **web applications**, relational data services, REST integrations, and workflow automation for complex organizations. Professional work connects identity, personnel, financial, space, equipment, service, and group membership data through Python, JavaScript, SQL, containerized deployment, and documented integration patterns. Builds **internal tools** from requirements discovery through production support, including Okta OIDC authentication, Shibboleth, reporting, dashboards, error handling, Git review workflows, and accessible interfaces. Applies **large language model APIs**, retrieval over approved content, agentic workflows, and human review with practical judgment about when conventional automation fits better. Works clearly with nontechnical process owners and enterprise service teams, translating real workflows into maintainable designs. This background supports dependable applications, careful data handling, and sustainable delivery across decentralized environments.

EXPERIENCE

AI Solutions Developer February 2025 - Present
CedarPeak Research Technologies *Grand Rapids, MI*

Leads internal **full stack** applications for research operations, connecting data services, identity records, financial information, space records, and service workflows. Owns requirements discovery, technical design, implementation, deployment, documentation, and production support for a small development environment.

- Replaced spreadsheet coordination with **Python** services, **JavaScript** interfaces, SQL models, and REST integrations for research operations.
- Built **Okta OIDC** workflow authentication with reconciliation queues, giving reviewers clear paths for inconsistent identity records.
- Applied retrieval over approved institutional content, adding **human review** before **generative AI** outputs reached downstream workflows.
- Modeled personnel, finance, space, and service data with documented assumptions for recurring operational reports.
- Packaged applications in containers and used Git releases to trace defects across browsers, APIs, and databases.
- Mapped process owner workflows, comparing AI automation with conventional options and delivering WCAG aware interfaces.

Full Stack Developer June 2023 - January 2025
Great Lakes Civic Systems *Kalamazoo, MI*

Delivered administrative applications and shared services for decentralized organizations, covering interface development, server side services, **relational data**, identity integration, reporting, and production support. Partnered with process owners and reviewers to convert undocumented work into reliable software.

- Delivered **JavaScript** interfaces and Python services that connected relational records with REST based administrative workflows.
- Designed directory, finance, and service data integrations with validation logs for inconsistent records and recoverable exceptions.
- Built normalized **dashboards** and recurring **reports**, helping teams retire parallel spreadsheets during routine administrative work.
- Added **Shibboleth** authentication and documented identity claims, authorization behavior, and support steps for service teams.
- Maintained containerized services and Git repositories, resolving defects across interfaces, APIs, **SQL**, and deployment workflows.
- Led requirements sessions that converted undocumented processes into acceptance criteria and clear technical tradeoffs.

Junior Web Application Developer October 2022 - May 2023
Riverbend Digital Services *Lansing, MI*

Built and supported internal web features under senior review, extending unfamiliar codebases with Python, JavaScript, SQL, REST integrations, WordPress components, and accessibility focused interaction patterns. Progressed from small features toward complete workflow components and dependable support fixes.

- Built Python and JavaScript workflow features under senior review, moving small process steps into supported applications.
- Created REST integrations with **authentication**, record transformation, and recoverable errors for disconnected service workflows.
- Wrote relational queries and schema migrations, documenting table relationships and test cases before deployment.
- Updated **WordPress** components with semantic markup and keyboard friendly interactions aligned with accessibility expectations.
- Used **Git** branches, pull requests, and peer review while extending unfamiliar codebases without disrupting established conventions.
- Investigated browser, server, and database incidents, documenting root causes and durable corrective fixes.

PROJECTS

Institutional Data Integration Hub 📅 2025

Connected identity, personnel, finance, space, and service records through documented REST integrations, reconciliation queues, relational models, and recurring dashboards.

Reviewed Generative AI Workflow 📅 2024

Applied retrieval over controlled institutional content with large language model APIs, multi step automation, and human review before operational use.

LEADERSHIP & AWARDS

- Recognized by delivery teams for clear integration documentation and practical support during cross system releases.
- Selected by peers as a trusted resource for difficult API, identity, and relational data troubleshooting.
- Received positive stakeholder feedback for translating unclear workflows into accessible, supportable applications.

EDUCATION

Bachelor's Degree in Information Systems
Grand Valley State University GPA: 4.0
Coursework: Database Systems, Systems Analysis, Web Application Development, Information Security

2022
Allendale, MI

CERTIFICATIONS

- Microsoft Learn Azure AI Fundamentals 📅 2024
- Microsoft Learn Generative AI Fundamentals 📅 2024

TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript, SQL
- **Web Application Development:** HTML, CSS, JavaScript
- **API Integration:** REST, API Gateway, Error Handling
- **Identity and Access:** Okta OIDC, Shibboleth, Authentication
- **Database Systems:** Relational Databases, Schema Design, Data Modeling
- **Data Quality:** Data Reconciliation, Validation, Exception Logs
- **Generative AI:** Large Language Model APIs, Retrieval, Agentic Workflows
- **Development Workflow:** Git, Pull Requests, Code Review
- **Container Platforms:** Docker, Containerization, Deployment
- **Accessibility Standards:** WCAG, ADA Title II, Semantic Markup
- **Business Analysis:** Requirements Gathering, Process Mapping, Technical Design
- **Reporting Systems:** Dashboards, Recurring Reports, SQL Queries

SKILLS

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|--------------------------|------------------------|-----------------|--------------------|
| • Full Stack Development | • SQL | • Data Modeling | • Code Review |
| • Applied Generative AI | • REST APIs | • Okta OIDC | • Containerization |
| • Python | • Relational Databases | • Shibboleth | • WordPress |
| • JavaScript | • Schema Design | • Git | |

PROFESSIONAL AFFILIATIONS

- Technology and systems integration communities, sharing practical lessons on APIs, data quality, and maintainable internal tools.
- Accessibility and inclusive design practice, applying keyboard support, semantic markup, WCAG, and ADA Title II awareness.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST