

GAGE ROSS

COMPUTER SCIENTIST

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OBJECTIVE

Computer Scientist (B.S., Dec 2024) with experience delivering software for the City of Kansas City, including an AI-based image processing project and a web calculator used for city workflows. Strong fundamentals in backend + data workflows (REST APIs, SQL) and UI development (HTML/CSS/JavaScript); comfortable owning features end-to-end and supporting existing systems.

EXPERIENCE

Jul 2025 - Jan 2026, Jun 2024 - Nov 2024, Aug 2023 - Jan 2024

The City of Kansas City

Materials Lab Division | Street Preservation

Engineering Technician | Performance Management Data Analyst

- Worked on AI Crosswalk detection program and KPI Dashboards
- Perform various tests on asphalt samples from the field and asphalt plants to ensure compliance with city specifications.
- Perform cleaning and maintenance of materials lab equipment required for testing.
- Assist Materials Lab Testing Lab staff
- Developed Degradation fee calculator website

PROJECTS

- **AI CROSSWALK DETECTION PROGRAM**
Python, REST API, CSV, concurrency

Built an image-processing pipeline to detect crosswalk features from city imagery for municipal analysis workflows. Implemented caching + restart-safe processing to avoid rework and support interrupted runs. Added structured logging and error handling to track failures and keep outputs consistent. Optimized throughput using concurrent processing and batched writes to maintain data integrity.

- **Degradation Fee Calculator Website**
Web app (HTML/CSS/JS)

Developed a web-based calculator used by city staff to compute degradation fees consistently. Translated policy/business rules into validated UI inputs and deterministic calculations. Improved usability by reducing manual steps and preventing common entry errors (input constraints + feedback).

- **KPI Dashboards**
Power BI, DAX, REST, Excel/ArcGIS data

Built dashboards with fiscal-year logic, KPI cards, and slicers to visualize maintenance and engineering metrics. Created reusable DAX measures and date logic to standardize reporting across departments. Integrated/cleaned data from multiple sources (Excel/REST/ArcGIS) for consistent reporting.

REFERENCES

Available upon request.

EDUCATION

Missouri Western State University

Fall 2022 – December 2024

Degree: B.S in Computer Science

Graduated: December 2024

GPA: 3.6

Major GPA: 3.78

LANGUAGES

- JAVA
- PYTHON
- SQL
- JAVASCRIPT
- HTML/CSS
- C/C++
- GO

DATA / BI

- DAX
- Power BI

TOOLS

- GIT
- CI/CD
- REST APIs
- Postman
- Windows/Linux
- Many IDEs