

Camden Kirkpatrick

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PROFESSIONAL SUMMARY

Computer Information Systems graduate (3.97 GPA) proficient in Python, C++, Java, and SQL. Designed and deployed a live full-stack helpdesk application with JWT authentication and a tested REST API, and built a 3D software renderer from scratch in C. Seeking an entry-level software or backend development role where I can apply strong problem-solving and a solid foundation in API design, testing, and object-oriented programming.

SKILLS

Languages: Python, C, C++, Java, SQL, JavaScript, HTML/CSS

Some Experience: PHP, C#

Tools: REST API Design, Git, Make, GDB, FastAPI, Pytest, JUnit 5, SQLAlchemy, SDL

Soft Skills: Problem-Solving, Teamwork, Communication

PROJECTS

Helpdesk Ticket System (FastAPI, SQLAlchemy, JWT, SQLite, Pytest) - ([live link](#))

- Designed and deployed a full-stack helpdesk application with JWT authentication, secure password hashing (bcrypt), and per-user data isolation enforced at the database level.
- Implemented 8 RESTful CRUD/search/PATCH endpoints with query-parameter filtering and automated backend testing in pytest.

3D Software Renderer (C) - ([link](#))

- Built a real-time software renderer from scratch, implementing perspective projection, camera controls, triangle rasterization, z-buffering, lighting, and texture mapping.
- Developed all 3D math from scratch - vector operations and 4×4 matrix transformations for model, view, and projection - without relying on a graphics library like OpenGL or DirectX.

Bank Management System (C++, OOP, File I/O) - ([link](#))

- Designed a console-based banking system using object-oriented principles, supporting banks, customers, and checking/savings accounts (deposit, withdraw, transfer, interest) with persistent file output and a Makefile-based build.

WORK EXPERIENCE

Fareway - Deli Clerk (2023 - present)

- Collaborated with team members to keep the deli stocked, organized, and running smoothly during busy hours.
- Prepared and smoked meats on a commercial smoker, monitoring cook times and temperatures to ensure quality and food safety.
- Maintained a clean and sanitary work area by following food safety and hygiene standards.

EDUCATION

Des Moines Area Community College - Ankeny, IA

Associate of Applied Science, Computer Information Systems - 05/2025 | GPA: 3.97 / 4.00

- Dean's List: Fall 2023, Fall 2024
- President's List: Spring 2024, Summer 2024, Spring 2025