# Daniel Mędrek

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## Education

**Lublin University of Technology** – Master of Computer Science — Expected July 2027
**Lublin University of Technology** – Bachelor of Computer Science — February 2026

## Projects

**Study Materials Platform With AI Features**

- Built a 20-endpoint REST API in Go, using the standard library, backed by SQLite for persistent application data
- Implemented Google OAuth 2.0 authentication for secure student account sign-in
- Integrated Google Cloud Storage for file management and Gemini 2.5 Flash for AI-generated quizzes
- Wrote 21 unit tests using Go's standard testing package to validate API and application logic
- Automated database maintenance with a scheduled job that removes obsolete records every 12 hours
- Collaborated with a 2-person front-end team on API contract design and delivered the application on schedule

**RSS Feed Aggregator** — github.com/MedrekIT/gator

- Built a command-line RSS feed aggregator in Go, allowing users to create profiles, follow feeds, browse posts and receive new updates automatically
- Migrated persistent storage from SQLite to PostgreSQL, adapting the data layer to support a multi-user architecture with per-user feed subscriptions
- Implemented concurrent background feed aggregation, periodically polling subscribed feeds at a user-defined interval without manual input
- Developed a post search and browsing interface with results ordered by publication date

**Go Hot Reloader** — github.com/MedrekIT/relive

- Designed a file change detection mechanism in Go to automatically restart development servers when source files change
- Implemented continuous file monitoring using Go concurrency, that already supported projects with up to 50 files, including 31 Go source files
- Automated the development restart workflow, eliminating the need for manual server restarts after source changes

## Experience

**Restaurant Worker,** McDonald's – Lublin, PL — November 2022 – January 2024

- Prepared and assembled food and beverage orders in accordance with company quality and safety standards
- Prioritized tasks during busy periods, maintaining accuracy under pressure
- Collaborated with team members across different restaurant stations to ensure orders were served efficiently
- Adapted to different responsibilities and changing needs while maintaining consistent service quality

## Skills

**Languages:** Go, SQL
**Back-end:** REST API, HTTP, OAuth 2.0, JWT, Concurrency
**Databases:** PostgreSQL, SQLite
**Testing:** Unit Testing
**Cloud and Tools:** Google Cloud Storage, Docker, Git, Postman