




Mohamed Saber Refaei Kenawi

Full-Stack Software Engineer (Node.js, React, TypeScript, PostgreSQL)


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SUMMARY

- **Full-Stack Development:** Specialist in building secure, high-performance web applications using **Node.js**, **Express**, **PostgreSQL**, **React**, and **TypeScript**.
- **AI Integration:** Successfully implemented AI-driven features such as natural-language search, auto-generated descriptions, category suggestions, and dashboard insights using **Groq** and **OpenAI** APIs.
- **Cloud & Data:** Experienced in deploying serverless utilities on **AWS Lambda** and creating interactive data visualization dashboards with **Python** and **Chart.js**.

EDUCATION

Bachelor in Software Engineering, Vilnius University  2023 – Present
Lithuania

- **Current Status:** 3rd Year Student
- **Relevant Coursework:** Data Structures & Algorithms, Web Development, Database Management, Cloud Computing.



TECHNICAL SKILLS

Languages JavaScript (ES6+), TypeScript, Python, C#, HTML5, CSS3.	Frontend React.js, Chart.js, Bootstrap.
Backend Node.js, Express.js, REST APIs, WebSockets.	Database PostgreSQL (Advanced: Full-text search, GIN indexes, Connection pooling).
Tools Git/GitHub, AWS Lambda, Azure Function, Postman	Security JWT Auth, Input Validation, Rate Limiting, CSRF Protection, Helmet.

PROJECTS

AI-Powered Inventory Management System, Node.js, Express 5, PostgreSQL, EJS, Chart.js, Groq/OpenAI

- Built products & categories CRUD with bulk operations, stock alerts, CSV import/export, and database backup.
- Added AI layer for smart search, auto descriptions, category suggestions, and executive- style dashboard insights.
- Implemented secure auth (JWT httpOnly cookies), double CSRF, BCrypt hashing, rate limiting; optimized search using PostgreSQL GIN indexes.

[Live Demo](#)  | [GitHub Repo](#) 

Patent Search Dashboard, Node.js, Express

- Searches patents via EPO OPS API with pagination and metadata views.

Repo: [github.com/Muhamed Saber1990/patent-search-dashboard](https://github.com/MuhamedSaber1990/patent-search-dashboard)

Vimeo Video Downloader -> Google Drive, Node.js, WebSockets, FFmpeg, Google Drive API

- Downloads via FFmpeg and uploads to Google Drive with real-time progress updates (WebSockets, resumable uploads).

Repo: github.com/MuhammedSaber1990/vimeo-video-downloader

QR Generator Lambda, AWS Lambda (Node.js)

- Serverless QR code generation endpoint designed for API Gateway; includes CORS support.

Repo: github.com/MuhammedSaber1990/qr-generator-lambda