

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
• Current Status: 3rd Year Student	Lithuania
• 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

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/Muhamed Saber1990/vimeo-video-downloader](https://github.com/Muhamed-Saber1990/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/Muhamed Saber1990/qr-generator-lambda](https://github.com/Muhamed-Saber1990/qr-generator-lambda)