

BASEM ESAM OMAR

Backend Developer Node.js & MERN Stack CS Student @ Suez Canal University

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PROFESSIONAL SUMMARY

Backend engineer and 3rd-year CS student specializing in Node.js, Express, and MongoDB. Built and shipped a production REST API serving a live student-club platform, implementing JWT auth, Cloudinary file uploads, transactional email flows, Swagger-documented endpoints, and a multi-layer security stack (Helmet, rate-limiting, XSS-Clean, HPP, Mongo Sanitize). Hands-on experience leading technical teams, teaching OOP to 50+ students, and contributing across the full software lifecycle — from architecture to deployment. Actively seeking a backend internship or junior role. Open to remote or relocation.

TECHNICAL SKILLS

Backend	Node.js · Express · REST APIs · JWT Authentication · PHP · Laravel
Databases	MongoDB (Mongoose) · MySQL
DevOps & Tools	Docker · Git · Linux Administration · Bash · Nodemon · ESLint / Prettier
Languages	JavaScript · PHP · Python · C++ · Bash
APIs & Docs	Swagger / OpenAPI · Joi Validation · Cloudinary · Nodemailer · Postman
ML / AI	PyTorch · Scikit-learn · TF-IDF · NLTK · OpenCV
Concepts	OOP · Clean Architecture · RBAC · System Design · MVC · Secure Coding

EXPERIENCE

Vice IT Head - Backend Lead Trosco Student Club Suez Canal University *Jan 2025 – Present*

- Architected the full backend for the live club website: 5 API modules (Auth, Users, Tracks, Events, Admin Dashboard) with 20+ documented Swagger endpoints.
- Engineered a security-first stack — Helmet headers, express-rate-limit, XSS-Clean, HPP, Mongo Sanitize — hardening the API against OWASP top threats.
- Built transactional email flows (welcome, password-reset, enrollment confirmation, session reminder) using Nodemailer with HTML templates.
- Integrated Cloudinary + Multer for photo uploads, Joi for request validation, and bcrypt for secure password hashing.
- Led the technical team, establishing Git workflows, code-review standards, and ESLint/Prettier (Airbnb config) enforced across the codebase.

OOP Instructor Google Developer Groups (GDG) SCU *Apr 2025 – May 2025*

- Delivered structured C++ and OOP sessions to 50+ beginner-level university students over a 2-month programme.

- Designed hands-on labs covering classes, inheritance, polymorphism, and SOLID design principles; received Certificate of Appreciation for instructional quality.

Active Member & HR Coordinator Mech Hackers Community

2023 – Present

- Participated in hackathons, technical workshops, and knowledge-sharing sessions; contributed as HR Coordinator (Certificate of Appreciation awarded).

PROJECTS

Trosc Club Backend [Node.js](#) · [Express](#) · [MongoDB](#) · [JWT](#) · [Clouinary](#) · [Nodemailer](#) · [Swagger](#)

Production backend powering the Trosc SCU student-club website. Implements full authentication (register, login, forgot-password with 10-min reset tokens), course-track streaming, event scheduling, announcements, role-based admin dashboard, and activity-log auditing across 7 Mongoose models. Secured with a 5-layer middleware stack; API documented with Swagger UI. Live and in active use.

github.com/Basem3sam/trosc-backend

NeuroScan-AI — Brain Tumor Detector [Python](#) · [PyTorch](#) · [CNN](#) · [KNN](#) · [KMeans](#) · [OpenCV](#) · [Tkinter](#)

Medical imaging application that detects brain tumors from MRI/CT scans across 5 ML pipelines (hybrid CNN-KNN-KMeans architectures). Achieved 85–92% accuracy with histogram equalization preprocessing. Features a professional Tkinter GUI.

github.com/Basem3sam/neuroscan-ai

Express-Mongo Student-Doctor API [Node.js](#) · [Express](#) · [MongoDB](#) · [RBAC](#)

RESTful API with complete CRUD operations and role-based access control for managing student and doctor records. Forked 3x by other developers.

github.com/Basem3sam/express-mongo-student-doctor

HarmonyHub — Playlist Manager [C++](#) · [Circular Doubly Linked Lists](#) · [OOP](#)

Collaborative C++ playlist manager built on CDLLs for the Data Structures course at SCU. Supports add, edit, sort, save, and navigate operations. 4 GitHub stars, 2 forks.

github.com/Basem3sam/HarmonyHub---Playlist-Manager

IMDB Sentiment Classifier [Python](#) · [NLTK](#) · [TF-IDF](#) · [Scikit-learn](#) · [Logistic Regression](#)

NLP pipeline classifying IMDB movie reviews as positive/negative using text preprocessing, TF-IDF vectorisation, and logistic regression.

github.com/Basem3sam/movie-sentiment-classifier

Laravel E-Commerce Platform [PHP](#) · [Laravel](#) · [MySQL](#)

Full e-commerce web app with user authentication, admin dashboard, product/category management, and shopping interface. Final project for ITI PHP Full Stack track (120 hrs).

github.com/Basem3sam/laravel-ecommerce-app

EDUCATION

B.Sc. Computer Science Suez Canal University - Faculty of Computers & Informatics 2023 - 2027 (expected)

GPA: 3.48 / 4.0

Relevant Coursework: OOP - Data Structures & Algorithms - Backend Development - Linux Administration
- Networks - Compiler Theory - Operations Research

Activities: ICPC Competitor - Trosc Vice IT Head - GDG & Mech Hackers Member

CERTIFICATIONS & ACHIEVEMENTS

- Cloud Architecture - Professional Certification (ITI)
- PHP Web Development - 120-hour Full Stack Track (ITI)
- Certificate of Appreciation - OOP Instructor, GDG SCU (2025)
- Certificate of Appreciation - HR Coordinator, Mech Hackers (x2)
- ICPC Competitor - Suez Canal University Team
- 65 GitHub Followers 22+ Public Repositories Active open-source contributor

LANGUAGES

Arabic (Native) - **English** (Professional Working) - **French** (Elementary)