

Eyal Koubi

Full Stack Developer | Software Engineer | Web Applications

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EXECUTIVE SUMMARY

Expertise: Fullstack (front-end and back-end) Developer with hands-on experience in ReactJS, Node.js, and backend development. Strong analytical and problem-solving skills, with a passion for building scalable, efficient web applications (efficiency web development). Recognized for outstanding performance in software development (data structures, OOP - object-oriented programming, development tools, ect') for operational needs in the IDF. Have good attention to detail and ability to work independently.

Key Responsibilities: Experienced in frontend and backend development, database architecture, and API integrations. Adept at developing interactive platforms, leading full-cycle development, and optimizing application performance.

Skills & Knowledge: Proficient in JavaScript, TypeScript, ReactJS, Node.js, ExpressJS, MongoDB, PostgreSQL, and cloud deployment. Experienced in full-stack application development, game platform engineering, and medical image processing algorithms.

PROFESSIONAL EXPERIENCE

2023 – 2024 | Full Stack Developer | Civilian Employee of the IDF

Full Stack Development & Software Engineering & R&D (Research and Development)

- **React-Node.js-based applications:** Developed full-stack applications for real-time operational needs.
- **Database schema design:** Designed MongoDB (NoSQL) and PostgreSQL (and SQL) databases for efficient data management.
- **API integration:** Implemented RESTful APIs and GraphQL for seamless service communication.

Recognition & Leadership

- **Award-winning performance:** Recognized for outstanding software contributions by the Commander of Communication Electronics Command during wartime.
- **Cross-functional collaboration:** Worked closely with different teams to optimize application functionality (Agile and Scrum development methodologies).

EDUCATION

2020-2024 | ORT Braude College of Engineering, Karmiel | B.Sc in Software Engineering

- President's List of Excellence, 2023
- Dean's List of Excellence, 2022
- GPA**: 88.99

TECHNICAL SKILLS

- **Frontend & UX** (user experience, web design..): React.js (React Native), Vue, Java Script (ES6+), TypeScript, HTML, CSS3, Responsive Design.
- **Backend:** Nodejs, ExpressJS, Python, Java, RESTful (REST) APIs, GraphQL.
- **Other programming language:** Java, C, MATLAB.
- **Databases:** PostgreSQL, MongoDB, MySql, SQL.
- **Tools & Frameworks & Web Services (web technologies):** Git, GitHub, Gitlab, Jira, Docker, AWS, TDD (Test-Driven Development), testing and debugging, code reviews.
- **Styling & UI:** Modern CSS methodologies, cross-browser compatibility.
- **Languages:** Hebrew, English.

PROJECTS

Web-Based Game Platform

- **Project Overview:** Developed a multiplayer gaming platform with interactive games, including Tic-Tac-Toe, Trivia, and Rock-Paper-Scissors.
- **Technologies Used:** ReactJS (Frontend), Node.js, ExpressJS (Backend), MongoDB, TypeScript.
- **Key Features:**
 - **User authentication:** Admins can add, delete, and update trivia questions.
 - **Game mechanics:** Integrated real-time game interactions and scoring system.
 - **Deployment:** Hosted on Render for scalable performance.
 - **Username for player:** eyalKoubi, **Password for player:** shablool2
 - **Username for player:** lielPasman, **Password for player:** shablool1
- **GitHub Repository:** [Game Platform Project](#)

Medical Image Processing (Final Project)

- **Project Overview:** Designed an image processing algorithm (algorithm development and analytics) to detect dark triangle regions in larynx medical scans for enhanced visualization (mobile applications).
- **Technologies Used:** Java, JavaFX, Scene Builder.
- **Key Features:**
 - **Grayscale Conversion & Thresholding:** Applied Otsu's Thresholding for background separation.
 - **Segmentation Algorithm:** Used Region Growing to isolate larynx structures.
 - **Triangle Detection Algorithm:** Extracted sharpest images based on focus-level calculations.
- **GitHub Repository:** [Medical Image Processing Project](#)

MILITARY SERVICE

October 2017 – October 2019 | IT Technician & Sys Admin | IDF (Communication Corps)

Operational IT Support: Provided real-time network troubleshooting (network protocols, networking, configuration..) and hardware installations in IDF war rooms (technical support on Windows).

- **Excellence Awards:**
 - Makshap's Excellence (Northern Command Communication Commander), 2019.
 - Recognized for exceptional performance during wartime in 2023-2024.