

ZEYAD ABOUELKASSEM

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Summary

Software Engineer with hands-on experience building full-stack applications and AI-powered systems. Skilled in developing secure REST APIs, integrating machine learning models into production workflows, and designing scalable user-centric web applications. Strong foundation in system design, data structures, and modern frameworks, with a focus on delivering practical, high-impact solutions.

Technical Skills

- **Languages:** Python, Java, SQL, JavaScript/TypeScript, HTML5, CSS3
- **Frameworks & Libraries:** Next.js, FastAPI, Django, PyTorch, React, Spring Boot
- **Tools:** Git, GitHub, Postman, Docker, Axios, Vite, Maven
- **AI:** NumPy, CNN Development, PyTorch Model Training, Data Preprocessing
- **Databases:** MySQL, MongoDB, Oracle, SQLite, Postgres

Work Experience

SCRAMBLEBIT

Jul 2025 – Sep 2025

Software Engineering Intern

- Developed a responsive e-commerce application using **React** and modular UI components, improving user experience consistency and reducing UI redundancy by **30%**
- Integrated **RESTful APIs** using **Axios**, enabling dynamic product rendering and authentication workflows, improving data loading efficiency by **25%**
- Refactored component structure and applied modular design principles, enhancing code maintainability and reducing future development time by **20%**
- Collaborated on backend-related tasks (**Node.js / .NET**), database operations (**MongoDB, SQL**), and API testing, strengthening full-stack understanding
- Identified and resolved UI/UX performance issues, optimizing rendering behavior and reducing unnecessary re-renders, improving performance by **20–30%**

EPAM Systems

May 2026 – Sep 2026

Software Engineering Training Participant

- Strengthened core Java and object-oriented programming skills through hands-on exercises on advanced OOP, collections, and Java Core APIs.
- Practiced backend development fundamentals including file I/O, data persistence with SQL and databases, and networking concepts for Java web applications.
- Explored Spring Framework fundamentals and modern development tools, integrating AI tools for Java developers to streamline development workflows.
- Completed an integrated practical project and final assessment, applying full-stack Java skills to build a functional application.

Projects

GoWeb

<https://goweb-delta.vercel.app/> (**LIVE**)

Next.js | TypeScript | FastAPI | PostgreSQL | Playwright

Summary: AI-assisted website audit platform that analyzes rendered webpages and generates structured UX reports.

- Built end-to-end analysis flow for public URLs with desktop and mobile rendering
- Implemented browser-based inspection using DOM signals, computed styles, screenshots, and layout checks
- Designed deterministic rule-based reporting with structured issues, scores, recommendations, and persisted analysis history

AI-Powered Nanoparticle Synthesis & Analysis

<https://github.com/ZeyadDev-1/ai-powered-nanoparticle-synthesis>

Django REST | React | PyTorch | SQLite

Summary: End-to-end platform that transforms microscopic images into quantitative nanoparticle size insights using AI.

- Built full-stack platform with real-time AI inference pipeline
- Developed CNN regression model to predict nanoparticle mean size from microscopic images
- Implemented secure authentication and user-based prediction tracking

InnerLog

<https://github.com/ZeyadDev-1/innerlog>

Django REST | React | Chart.js

Summary: Privacy-focused mood tracking system with analytics.

- Built journaling system with secure JWT authentication
- Designed analytics APIs (trend, distribution, weekly averages)
- Developed interactive dashboards using Chart.js

Education

Bahçeşehir University

Sep 2022 – Feb 2026

Bachelor of Software Engineering

CGPA: 3.04 | Honor

Relevant Coursework:

- Data Structures & Algorithms, Object-Oriented Programming
- Software Architecture, Software Analysis & Design
- Databases, Software Security
- Software Verification & Validation, Prompt Engineering (AI)

Languages

- Arabic (Native)
- English (C1)
- Turkish (B1)

Soft Skills

- Problem Solving & Analytical Thinking
- Team Collaboration & Cross-functional Communication
- Clear Written & Verbal Communication
- Critical Thinking & Decision Making
- Adaptability in Fast-paced Environments
- Emotional Intelligence & Self-awareness

Licenses & Certifications

Communication in the 21st Century Workplace

<https://coursera.org/verify/LOJ8AL6JNCXJ>

University of California, Irvine

Effective Problem-Solving and Decision-Making

<https://coursera.org/verify/PAM3C3HNV87C>

University of California, Irvine

Emotional and Social Intelligence

<https://coursera.org/verify/K1MNIJE273YZ>

University of California, Davis

Positive Psychology: Resilience Skills

<https://coursera.org/verify/394PCKG0XGNV>

University of Pennsylvania

Mindfulness and Well-being: Living with Balance and Ease

<https://coursera.org/verify/AEVK94PA0C3F>

Rice University

The Power of Team Culture

<https://coursera.org/verify/ZVN26O8YMLVB>

University of Pennsylvania

Diploma in Customer Service

<https://alison.com/certification/check/YML94P394P>

Rice University