

# Ammar Awad

**Senior Backend Engineer** with **5+** years delivering high-impact solutions. Saved companies €247K through smart optimizations and built tools that thousands of developers actually use. Combining technical excellence with leadership experience and open-source contributions.

## WORK EXPERIENCE

### BMW Group (via eJad), Cairo, Egypt — Senior Software Engineer

Global Automotive Leader, Jan 2025 - present

- Re-architected the logging service with asynchronous processing and optimized formatting, improving UI responsiveness by **15%** and eliminating **€223K** in performance-related losses.
- Revamped BMW's Infrastructure (CI/CD) using infrastructure as code with Python, Ansible, Bazel, and GitHub in an Agile Scrum workflow, impacting **60+** active devs and **120+** weekly PRs.
- Mentored **3** junior engineers and **2** students, enhancing their technical skills and fostering leadership development.

### BMW Group (via eJad), Cairo, Egypt — Software Engineer

Global Automotive Leader, March 2022 - Jan 2025

- Engineered a robust VS Code extension providing code IntelliSense and syntax checking for internal DSL. Received over **2500** downloads within the first month of release, using Java, TypeScript, Xtext, and LSP.
- Collaborated with **cross-functional** teams to develop an enterprise code generator in **Java EE** and Eclipse SDK, automating C file generation from XML and reducing development time by **33.6%**.
- Optimized Symphony's performance by tuning JVM parameters, selecting a **garbage collector**, and integrating **virtual threads**, which increased throughput by **45.4%** using Java, Eclipse RCP, SWT, and JFace.
- Improved the obfuscation rate of Java binary files by **42%** using ProGuard to deceive the decompilation process.

### Lensed, Remote (NY, USA) — DevOps Engineer

Enterprise software and SaaS startup, September 2021 - March 2022

- Developed a robust CI infrastructure and comprehensive test automation, reducing flaky tests by **60%**, to ensure reliable builds using Github Actions.
- Built Python-based CI automation for PR monitoring, resulting in a resilient workflow saving over **€24K** annually

### Robotech, Cairo, Egypt — Software Engineer, Part-time

Industrial automation and robotics specialist, October 2019 - August 2021

- Co-designed and implemented a reliable, low-latency, real-time control system for a submarine, improving UX with an easy-to-use UI, reducing latency to 100 ms using ROS and Qt C++.
- Utilized a machine learning model enabling autonomous driving capabilities, reducing navigation errors by **30%**.

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## SKILLS

**Languages:** Java, Python, C++, TypeScript, Kotlin

**Other:** MongoDB, PostgreSQL, Spring, JFace, Django, Maven, Gradle, Unit Testing (JUnit), REST API, React, Ansible, Git, Kafka, Docker, AWS, Linux, JIRA

**Concepts:** Data Structures, Algorithms, OOP, Design Patterns, SDLC, SOLID, TDD, Utilization of LLMs

## PUBLICATIONS

**Neural Machine-Based**

**Mobile Applications Code**

**Translation:** 2020 2nd Novel Intelligent and Leading Emerging Sciences Conference (NILES), 2020, pp. 302–307, doi:10.1109/NILES50944.2020.9257935.

## LANGUAGES

**Arabic** native

**English** fluent

**German** beginner

## EDUCATION

**Ain Shams University**, Bachelor's in Computer Engineering.

Top 15% of my class, Sep 2015 - July 2020

## SELECTED PROJECTS

**Finsync**: Mobile application that automates and revolutionizes financial management on the go (Spring Boot, Hibernate, JPA, and React).

**Log4j2**: contributor to the open-source Apache Log4j (Java and Maven).

**GP**: Deep-learning model that translates between programming languages with 72% accuracy using Google's Transformer (Python and Keras API).

**PongPing**: Table tennis scoring system (Python and OpenCV).

**ASU Racing Team**: Faculty's Racing Team Website (Angular, Django, and SQL).

**CareHub**: Healthcare app that streamlines patient record management, appointment booking, and provider discovery (Django, SQL, HTML5, and CSS3).