Rami Darras



Software Engineer

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R&D Software Engineer building software products and AI models, with a primary focus on backend services and extensive frontend development experience. Bethlehem University's top graduate, now pursuing an M.Sc. in Artificial Intelligence and Data Analytics.

Experience

R&D Software Engineer

SynergyMed Devices, Palestine | Jul 2025–Present

- Develop the main product's software console using C++ and gtkmm.
- Build AI models integrated into the product software to predict process outcomes.
- Manage the company's websites and network operations.

Software Engineering Intern

Enterprise Information System Office, Bethlehem University | Jun 2025–Aug 2025

- Led backend interns in delivering teacher-evaluation services to the university's live portal.
- Implemented evaluation workflows, reporting, security controls, and performance optimizations using Java, Spring Boot, and MySQL.

Education

M.Sc. in Artificial Intelligence and Data Analytics

Palestine Ahliya University | Sep 2026–Present

Bachelor's in Software Engineering

Bethlehem University | **GPA: 3.96/4.0** | Oct 2022–Jun 2026
Ranked 1st university-wide among the June 2026 graduating cohort.

Secondary School | Scientific Stream

College des Freres, Bethlehem | **Tawjihi: 99.0%** | Jul 2019–Jul 2022

Selected Projects

Mubin | Arabic Speech and Text to Arabic Sign Language

Graduation project, Bethlehem University | 2026 | mubin.darras.dev

- **1st place, Software Engineering graduation projects**; selected to represent Bethlehem University at the **Fifth Annual PSSF Convention (2026)**.
- Designed and built the entire backend with FastAPI and PostgreSQL, integrating WebSocket audio, Amazon Transcribe, and local Whisper for browser-based 3D sign playback.
- Implemented a ten-stage Arabic processing pipeline combining lexical matching, morphological rules, and constrained large language model (LLM) fallback.
- Built 65 unit tests covering Arabic processing, semantic guardrails, session logic, playback, and video-export helpers.

Selected Projects (continued)

Almanar Marble | Bilingual Catalog and Content Platform
Spring Boot, Next.js, MongoDB, Docker, AWS | almanarmarble.com

- Built an Arabic/English catalog and admin platform with JWT authentication and Caffeine caching.
- Integrated Amazon S3 media uploads and CloudFront delivery; containerized services with Docker Compose for deployment to Amazon EC2.

Gymix | Fitness E-commerce Platform
Spring Boot, React, MySQL, MongoDB, Docker, AWS | gymix.co

- Built an e-commerce platform with product administration, order tracking, customer reviews, and wishlist functionality.
- Implemented JWT and Google OAuth2 authentication with OTP verification, Amazon S3 image storage, currency conversion, and Caffeine caching.

SubSpace | Subscription Tracker
NestJS, Next.js, PostgreSQL, Telegram Bot API

- Built subscription tracking with Telegram-based passwordless sign-in, configurable renewal cycles, and automated expiry reminders.

FastScrapper | Web Scraping Infrastructure
Python, FastAPI, Chromium, APScheduler, Docker

- Built a configurable scraping service with browser and HTTP extraction, scheduled jobs, retry backoff, and an authenticated REST API.

Portalito | Learning Management System
Spring Boot, React, MySQL, MongoDB, WebSockets

- Built a role-based LMS with courses, assignments, quizzes, real-time chat, and Google Calendar scheduling and reminders.

Technical Skills

Languages: C++, Java, Python, JavaScript, TypeScript, SQL
Backend & desktop: Spring Boot, FastAPI, NestJS, Qt, gtkmm, REST APIs, WebSockets
Frontend: React, Next.js, HTML, CSS
Databases & delivery: PostgreSQL, MySQL, MongoDB, AWS, Docker, Linux, Git, Nginx
AI & speech: Predictive modeling, Whisper, Amazon Transcribe, LLM integration

Awards & Leadership

IEEEXtreme 18.0: Team ranked 55th worldwide and 8th in Palestine | Oct 2024
Vice Chair, IEEE Student Branch: Bethlehem University | 2024–2025

Languages: Arabic (native), English (excellent), French (DELF B1).