

# Ben Bandarker

Software Engineer | Backend & Cloud-Oriented

ben.bandarker@gmail.com • 050-6584728 • linkedin.com/in/benbandarker • github.com/BenBandarker • https://www.benbandarker.com/

## Professional Summary

### Junior Software Engineer | Backend & Cloud-Oriented

Computer Science graduate and AWS Certified Cloud Practitioner with hands-on experience in backend, cloud, and algorithmic projects. Skilled in **Node.js**, **Java**, **MySQL**, and **AWS** (EMR, EC2, SQS). Built scalable systems with **REST APIs** and distributed processing. Ex-IDF combat commander with strong leadership and teamwork under pressure. Seeking a Software Engineer role in a dynamic tech team.

## Projects

### Football Insight Hub – (Personal Project)

**Node.js** | **MySQL** | **Express.js** | **RESTful API**

- Developed a **RESTful** backend for managing tournaments, teams, matches, and events.
- Modeled 7-table **MySQL** schema (50+ tournaments, 160+ teams, 1000s of players).
- Implemented scalable Express routes and reusable service logic.
- Enforced data integrity with constraints, indexes, and validation.
- Built with clean architecture principles for future extensibility.

### Collocation Extraction

**Java** | **Hadoop** | **MapReduce** | **AWS**

- Processed 17.9B+ English 2-grams using **MapReduce** on EMR.
- Extracted collocations via Normalized PMI with top-ranked results.
- Reduced shuffle size by 94% via local aggregation.
- Completed full-scale run (~2h) with strong scalability and efficiency.

### Sarcasm Analysis

**Java** | **AWS EC2/S3/SQS**

- Processed 5,000+ reviews with sentiment analysis and entity recognition.
- Deployed pipeline across **EC2** manager + 9 dynamic workers via **SQS**.
- Achieved 100% task delivery with fault-tolerant queueing and auto-recovery.
- Generated structured HTML reports with sarcasm and sentiment indicators.

## Core Technologies

### Languages

- Java
- Python
- TypeScript
- C
- C++

### Frameworks & Tools

- Node.js
- Express.js
- Git
- Linux
- MySQL
- AWS (EC2, SQS, S3, EMR),

### Key Concepts

- OOP
- Data Structures
- Algorithms
- Concurrency
- Cloud Architecture
- REST API Design

## Certificates

**AWS Certified Cloud Practitioner** — Issued July 2025

## Education

**B. Sc in Computer Science**

September 2021 – October 2024

**Ben Gurion University**

**"Moshal" Program Member**

September 2021 – present

International program fostering academic and personal excellence through mentorship and career guidance.

## Languages

- Hebrew
- English

## VOLUNTEERING

**"Yated"- volunteering**

October 2022 – March 2023

Tutored children with Down Syndrome

**"Ormat" School Tutor**

January 2021 – July 2021

Tutored students with learning challenges

## MILITARY SERVICE

**Infantry, "Givati" Brigade.**

March 2016 – November 2018

**IDF Combat Commander**

Led 10–30 soldiers in operations. Currently active in reserves as platoon commander.