

NADA ALBZOUR

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SUMMARY

Computer Engineering student and full-stack developer with a strong programming foundation in C++, Java, Python, and TypeScript, and hands-on experience across both interactive front-ends and backend services — REST APIs, relational databases, and containerized deployments. Completed a software engineering internship building a production-style log ingestion and query service. Proven ability to lead and deliver technical projects, including ranking 17th globally in the World Robot Olympiad as Team Leader and Lead Programmer, with a consistent record of academic excellence.

EDUCATION & CERTIFICATIONS

Bachelor in Computer Systems Engineering — Arab American University Oct 2024 – Present

GPA: 3.82 | Jenin, Palestine | Dean's List, 3 consecutive semesters

Intro to Front-End Web Development Nanodegree — Udacity Feb 2026 – May 2026

WORK EXPERIENCE

Software Engineer Intern — Foothill Technology Solutions Jun 2026 – Aug 2026

- Completed a remote software engineering internship covering TypeScript, Docker, relational databases, Python, and client-server fundamentals, culminating in an independent backend capstone project.
- Designed and built a Log Ingestion and Query Service (TypeScript, Express, PostgreSQL, Docker) — a simplified Datadog/Grafana Loki-style backend handling batch log ingestion, filtered and keyset-paginated queries, and time-bucketed aggregation with configurable retention.
- Resolved a database CPU exhaustion issue under load by implementing separate read/write connection pools, and built a GitHub Actions CI pipeline for automated testing.
- Passed official correctness (15/15) and reliability (20/20) evaluations under load testing against a live grading server.

Team Leader & Lead Programmer — World Robot Olympiad (WRO) Jun 2022 – Nov 2022

Autonomous Robotics Vehicle — Dortmund, Germany

- Led a 3-member team to design and develop an autonomous robotic vehicle using Arduino (C++) and Raspberry Pi (Python), achieving 17th place globally.
- Engineered a real-time control system integrating ultrasonic and gyroscope sensors for precise navigation and obstacle avoidance.
- Implemented computer vision with OpenCV to detect and classify objects, enabling dynamic path decision-making during live operations.

Participant — Problem-Solving & Competitive Programming — College Competitions 2021 – 2025

- Achieved 9th and 10th place in IC contests (2021 & 2022) by solving algorithmic challenges under time constraints.
- Placed 7th locally in PCPC 2025 (Palestine ICPC competition).
- Applied algorithm design, logical thinking, and teamwork to solve complex programming problems.

PROJECTS

EVA Autonomous Vehicle — Robotics & Computer Vision Project 2022

Python, C++, OpenCV

- Engineered an autonomous robotic system using Arduino (C++) and Raspberry Pi (Python) with real-time image processing for object detection and classification.
- Designed control systems using ultrasonic and gyroscope sensors for navigation and stability, with serial communication coordinating controllers.

Bakery Website — Front-End Development Apr 2026

HTML, CSS, Vanilla JavaScript

- Developed an interactive bakery shopping application with dynamic cart management, quantity updates, and checkout calculations.
- Built responsive, cross-device layouts using Flexbox and CSS Grid, with real-time DOM updates for a smooth user experience.

SKILLS

Languages: C++, Python, Java, TypeScript, JavaScript, HTML, CSS

Backend & Databases: Node.js, Express, PostgreSQL, Docker

Frameworks & Libraries: OpenCV, Object-Oriented Programming (OOP)

Developer Tools: Git, GitHub, GitHub Actions (CI/CD), Arduino IDE, Raspberry Pi

ACHIEVEMENTS

- Dean's List (Top 5%) — 3 consecutive semesters, 2024 – Present
- Ranked 1st in Faculty (Semester 2)
- PCPC 2025 (Local ICPC Competition): Placed 7th locally representing college
- IC Contests 2021 & 2022: Achieved 9th and 10th place in algorithmic problem-solving competitions