Ali Ghanati

Software Engineer & Full Stack Developer

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EDUCATION

M.Sc. in Embedded Systems   **2024 - Present (expected 2026)**
Eindhoven University of Technology

B.Sc. in Computer Engineering   **2018 - 2023**
Sharif University of Technology (Rank #1 University in Iran)

WORK EXPERIENCE

Smit Thermal Solutions

Test Engineer   **Sep 2024 – Mar 2025 (Part-time)**

- Tested and validated industrial oven control software.
- Executed structured tests to ensure system reliability under varied conditions.
- Gained hands-on experience with modern code generation tools.

Akka

Software Engineer   **Sep 2023 – Aug 2024**

- Developed Nest.js APIs for a decentralized exchange aggregator.
- Developed extensive test cases using Jest, and utilized them in GitHub Actions pipeline.
- Built data collection scripts for backend analytics.
- Developed an example dApp frontend for API validation and reference.

Kangonio

Full Stack Engineer   **Jun 2022 – Oct 2023 (Part-time)**

- Maintained and tested existing e-commerce platform features.
- Implemented and verified flexible discount code logic.

Twelve Group

Full Stack Engineer   **Jun 2022 – Oct 2023 (Part-time)**

- Developed data migration plugin and validated data integrity.
- Delivered backend features and redesigned frontend with React.
- Collaborated with UI/UX remotely to ensure design fidelity.

Asan Bourse

Frontend Developer   **Sep 2021 – May 2022**

- Developed and tested a mobile-first PWA for market event alerts.
- Exported app to Android and verified event notification logic.

Weblite

Full Stack Developer   **Dec 2020 – May 2021**

- Completed full-stack training, developing a multiplayer UNO game.
- Built a React micro frontend integrated into a messenger platform.

PROJECTS

- **Gamein**

  - Started as a member of frontend team, self-taught the Java Spring Boot framework when most of the backend team resigned, ensuring timely delivery.
  - Designed the database and wrote custom queries to transfer some computation loads to database, making APIs more efficient
  - Used NGINX & Docker to provide APIs to the frontend team, making the development process easier
  - Delivered a game with approximately 3,000 simultaneous users, analyzed data with help from the Game Design team to prevent cheating and/or fraud

- **Smart Home — Embedded Systems Course Project**

  - Built a home automation system with 3 Arduino modules and a Raspberry Pi as the central hub.
  - Programmed custom ESP8266 firmware in C to connect Arduino modules to Wi-Fi.
  - Created a dashboard for remote access and control.

- **Webelopers**

  - Helped maintain an open source project for a student-run tech event.
  - Collaborated with frontend, backend, and DevOps developers.
  - Built UI components for event registration, team creation & selection, schedule display, and third-party login.
  - Integrated all components with backend APIs to ensure proper functionality.

- **WSS Site**

  - Directed the redesign, deployment, and maintenance of an existing open source project.
  - Oversaw a student team while actively contributing to development.
  - Added new features and event data, and ensured CI/CD and test pipelines remained functional.

- **Record Tracker**

  - Built a single-page application for logging and analyzing archery scores.

HONORS & ACHIEVEMENTS

- Member of Iran's National Elites Foundation (INEF)
- Ranked 60th among 144,000 (top 0.1%) in national university entrance exam
- Member of National Organization for Development of Exceptional Talents (NODET)

CERTIFICATIONS

- [IBM DevOps and Software Engineering](#) - Issued by IBM (Coursera)
- [IBM Applied DevOps Engineering](#) - Issued by IBM (Coursera)
- [IBM Back-End Development](#) - Issued by IBM (Coursera)
- [Game Theory](#) - Issued by Stanford University (Coursera)

VOLUNTEER SERVICES

- Multiple contributions on open source projects on GitHub, also worked as a maintainer in some repositories
- Member of Central Council of university's Literature & Poems Club for 3 years
- TA Python Lab Course (3 Semesters), EE Department
- Staff in multiple student-organized events spanning across CSE and IE Departments
- Editor for multiple magazines at Sharif University of Technology
- Presenter of programming workshops for freshman students