

Software Engineer

Arshia Ahmadzadeh

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WEBSITES AND SOCIAL LINKS

Portfolio: <https://arshia.bio>

GitHub: <https://github.com/arshia-ahmadzadeh>

EXPERIENCE

SOFTWARE ENGINEERING MENTOR | Jul 2025 to Current

Quera - Tehran, Iran

Mentored students in **Django** bootcamp, teaching **backend development** and software engineering fundamentals. Designed comprehensive curricula covering **API development**, **database optimization**, and **deployment strategies**. Guided students through practical projects implementing **asynchronous processing** and modern deployment practices. fostered collaborative learning while ensuring adherence to industry best practices in backend development and software architecture.

SOFTWARE ENGINEER | Aug 2024 to Current

Dornica - Ahvaz, Iran

Developed three specialized software systems for **electrical distribution networks**: a Load Studies System using **machine learning** for consumption estimation with optimized large-dataset processing; a Load Flow Analysis System with **DlgSILENT Power Factory** API integration for advanced power calculations; and a **GIS-to-Electrical Network Converter** for transforming spatial data into electrical network graphs. Enhanced system performance through algorithm optimization and scalable designs.

SOFTWARE PROGRAMMING MENTOR | Apr 2024 to Apr 2025

Quera - Tehran, Iran

Mentor students in Python programming with expertise in data analysis using **NumPy**, **Pandas** and web development using **Flask**. Design tailored curricula covering data manipulation, statistical analysis. Guide students through end-to-end project implementation, from data preprocessing to web application deployment, while enforcing Python best practices. Foster critical thinking and problem-solving abilities by connecting theoretical concepts to real-world industry scenarios and current market demands.

SOFTWARE ENGINEERING INTERN | Jun 2023 to Oct 2023

Quera - Tehran, Iran

Built software systems with **Django**, developing **RESTful** and **GraphQL APIs** focused on performance and security. Created a **University Management System** using **Celery** for async processing and **Docker** for deployment. Optimized database performance with **caching** and applied advanced **design patterns**. Participated in **team planning**, **code reviews**, and **system design** for distributed environments.

EDUCATION

Islamic Azad University — Ahvaz, Iran | Bachelor's Degree in Computer Engineering

| Jan 2023 to Jan 2027

SKILLS

- Python
- Django
- Django Rest Framework
- FastAPI
- SQL
- NoSQL
- NumPy
- Pandas
- Celery
- Docker

PROJECTS

[Solana Trading Bot - Automated Trading Platform](#)

Developed a production-grade Solana trading automation system using **Python** microservices, **PostgreSQL** database, and **Docker** deployment with **Telegram bot** interface. Built TradingService for DEX integration, MonitoringService with threading for **real-time** position tracking, and BotService managing conversational UI with state management. Implemented encrypted wallet integration using AES-256, automated take profit/stop loss execution, and smart pending trades with price/market cap triggers. Core logic uses continuous threading loops with **race condition protection** to monitor token prices and automatically execute trades when user-defined thresholds are met.

CERTIFICATIONS AND LICENSES

[Software Engineering with Django at Quera](#)