Ahmed Nassar

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Experience

Django Software Foundation   **Jan 2025 – Present**
Open Source Contributor   *Remote*

- Selected as **Individual Member** of the DSF, my contribution endorsed by members and approved by DSF Board.
- Contributed to Django core, authoring **20+ pull requests**, including **9 Merged** and **11** Active PRs.
- Officially recognized as one of the **Much-Appreciated Contributors** for significant impact in Django.
- Added **2000+** LoC, Improving Documentation, Database, Security, Templates, UI, Fixed Bugs, and Added Features.
- Engaged with the community via code reviews, forum discussions, and discord collaboration to enhance code quality.
- **Enhanced web security** by defaulting to HTTPS and deprecating insecure HTTP fallback.
- **Resolved critical Django admin crash** by gracefully handling invalid UUIDs in content types.
- **Enabled overriding GenericForeignKey** in abstract models for improved ORM flexibility.
- **Improved test suite reliability** by refactoring i18n translation overrides for consistent discovery and execution.
- **Fixed internationalization errors** by restructuring ngettext for accurate multilingual translations.
- **Fixed Safari SVG rendering issues** in dark mode for better cross-browser UI compatibility.
- **Added FileField testing guidance** using LazyObject to improve storage backend testability.
- **Documented f-string** best practices with gettext for robust and maintainable internationalization support.
- **Standardized terminology** across 19 documentation files for consistent technical language.

Education

Modern Academy in Maadi   **Sep 2021 – Jun 2025**
Bachelor of Computer Science   *Cairo, Egypt*

- **CGPA:** 3.9/4.0
- **Graduation Project:** Egypt Metro Platform (Grade: A+)
- **Coursework:** Databases, Data Structures, Algorithms, OOP, Operating Systems, Software Engineering, Mathematics, Web & Mobile Development, AI/ML/DL, Distributed Systems, Cloud Computing, Computer Architecture & Network.

Projects

Portfolio | *React, JavaScript, Node.js, SCSS, Bootstrap, Firebase, HTML, CSS*   **GitHub** | **Live**

- Developed Personal Portfolio Website in an interactive website with animated backgrounds, dynamic content updates, smooth scrolling, dark/light themes, fully responsive across all screens, lazy-loading, and UI/UX design.
- Integrated Firebase for data management, EmailJS for contact forms, Google Analytics for user tracking, SEO optimization with Google Search Console, and automated CI/CD deployment using GitHub Actions.

Egypt Metro Backend | *Python, Django, PostgreSQL, JavaScript, HTML, CSS*   **GitHub**

- Engineered scalable Django backend for the Egypt Metro platform to digitalize the metro transportation in Egypt and enhance experiences for passengers and administrators, serving millions of users daily.
- Developed RESTful APIs with DRF to integrate with Mobile Application, AI prediction model, and Embedded System.
- Implemented JWT authentication and trip details, providing route, price, time, train tracking, and crowd analytics.
- Built online ticketing and subscription systems with QR code generation, integrating with multiple payment gateways.
- Deployed the backend & AI services, and PostgreSQL database on Render and documented using Swagger/ReDoc.

Achievement

Founder, Software Engineering Community   **GitHub** | **Discord**

- Created a central hub for Software Engineering opportunities and resources worldwide for FAANG, featuring internships, open source contributions, events, hackathons, mock interviews, books, coding competitions, and more.
- GitHub Repo achieved **425+** Stars, **15+** Forks, & **16+** Watching and Discord Server supports over **1000+** Members.

Technical Skills

Programming Languages: C++, Python, Java, C#, JavaScript, TypeScript, SQL, HTML, CSS
Frameworks and Libraries: React, Django, Node, Flask, Spring Boot, Bootstrap, Tailwind, SCSS, Firebase
Tools and Platforms: Git, GitHub, GitLab, Azure, AWS, Docker, Kubernetes, Linux, Postman, Redis, Kafka
Concepts: SOLID Principles, System Design, Design Patterns, Testing, Microservices, APIs, CI/CD, UI/UX, Agile