

Erfan Ghoreishi

Backend Software Engineer | MSc Advanced Computer Science

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Backend Software Engineer focused on designing and implementing clean, scalable, and maintainable backend systems. Experience building and operating production-ready APIs and services using Python and PHP, with strong attention to reliability, efficiency, and long-term maintainability. Comfortable working with CI/CD pipelines and containerised deployments using Docker and Kubernetes on AWS and Linux.

Education

MSc, Advanced Computer Science – University of Sussex (Sep 2024 – Sep 2025)

- Dissertation: Distributed Task Allocation System — FastAPI Microservices, Kubernetes

BSc, Software Engineering – University of Isfahan (Sep 2014 – Sep 2019)

- Final Project: UI-Driven API Generator — Laravel (PHP)
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Experience

Backend Developer — Esfahanahan (2018 – 2019)

Live: esfahanahan.com

- Designed and implemented backend APIs in Laravel as part of a WordPress-to-Laravel backend rebuild for a production website.
 - Reduced server load and response times through caching and replacing polling with WebSockets for real-time updates, and migrated multi-year historical data into a new SQL schema.
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Projects

Customer Service CRM Platform — Django, TDD, CI/CD, Selenium

Repo: gitlab.com/ghoreishi75/parsian-crm

- Built the system using Test-Driven Development with unit, integration, and Selenium tests to ensure reliability and safe iteration.
- Automated deployment and staging with Fabric and CI pipelines to enable repeatable releases.

Distributed Task Allocation Platform — FastAPI, Kubernetes, Docker

Repo: github.com/erfanghoreishi/dissertation

- Built a distributed backend using FastAPI-based microservices to route and offload compute tasks, reducing latency and energy consumption.
- Deployed on Kubernetes, reducing latency and energy usage by ~30%.

Scalable & Reliable Forum Backend — Django, TDD, CI/CD, AWS EC2

Repo: github.com/g5ESRS/forum-app | [Docs](#)

- Designed and implemented JWT REST APIs with scalability and reliability as core requirements.
 - Improved maintainability through TDD, automated testing, and CI/CD with GitHub Actions.
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Skills

- **Languages:** Python, PHP, Java, SQL
- **Frameworks:** Django, FastAPI, Laravel, Spring
- **Infrastructure & DevOps:** Git, GitHub Actions, CI/CD, Linux, Docker, Kubernetes, AWS, Nginx
- **Backend Engineering:** REST APIs, Microservices, Automated Testing (pytest, unittest), TDD