



Afsaneh Hassani Saleh

Backend Developer (Python & Django) | PhD in Mathematics

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professional summary

Analytical and detail-oriented Backend Developer with a PhD in Mathematics (Geometry & Topology) and hands-on experience in Python and Django web development. Skilled in designing and implementing RESTful APIs, managing relational databases, and optimizing backend performance.

Experienced in deploying and maintaining production-ready applications on Linux servers (VPS), with solid knowledge of Docker, Git, and virtual environments for efficient and collaborative development.

Familiar with front-end technologies such as HTML, CSS, and basic JavaScript, enabling effective collaboration across the full stack. Additionally, possess foundational knowledge in machine learning and data analysis, with a strong problem-solving mindset and a keen interest in building scalable, maintainable, and high-performance backend systems for modern web applications.

Skills

- Python, Django, Django REST Framework
- RESTful APIs, ORM, CRUD, authentication
- Data analysis with Python (Pandas, NumPy, SQL)
- PostgreSQL, MySQL, SQLite
- HTML, CSS, JavaScript (basic)
- Docker, Linux VPS deployment, Git/GitHub

Projects

- www.afsanehhassani.com
[GitHub Repository](#)
Built and deployed a Django-based portfolio and blog with dynamic content, RSS feed, and VPS deployment.
- <https://theafsaneh-hassani.ir/>
[GitHub Repository](#)
Built a Django web application with ORM-based CRUD, authentication, and environment management.
- <https://afsanehnexus.ir/>

[GitHub Repository](#)

Built a Django web application with custom authentication, blog CRUD, and admin customization.

- <https://afsaneh-hassani.github.io/simpleproject/>

[GitHub Repository](#)

Built and deployed a responsive single-page website using HTML and CSS on GitHub Pages.

Education

PhD in Mathematics (Geometry & Topology)

University of Yazd, Yazd, Iran, 2014 – 2023

- Research focused on Geometric Optics, Dynamical Systems, Computational Geometry, and Geometry in Topology and Physics
- Developed strong analytical thinking, mathematical modeling, and research skills useful in computational and software problem-solving
- Served as a teaching assistant in undergraduate mathematics courses,

M.Sc. in Mathematics (Geometry and Topology)

University of Yazd, Iran, 2011–2013

- Research focus on dynamical systems, modeling of the three-body problem, and applications of geometry in topology and physics.

B.Sc. in Applied Mathematics (Industrial Mathematics)

Shahid Bahonar University of Kerman, Iran, 2007–2011

- Research focus on dynamical modeling in biology and population dynamics.

Experience

University Lecturer

Kerman National University of Skill and other universities — 2014 – Present

- Teaching Mathematics and Engineering courses (Calculus,

Statistics, Discrete Math, Differential Equations).

- Enhanced analytical thinking and problem-solving skills applicable to software development.

Technical & Financial Expert

Omran Mokran Development Company — 2023 – Present

- Managing data and reports in technical and financial departments.
- Contributing to process automation and internal tool development using Python.

Publications

1. H. Khorshidi, A. Hassani-Saleh, "A New Formulation For Reflection of a Point in a Parametric Curved Mirror", 4th Iranian Conference on Mathematical Physics, Qom university of technology, 2020.
2. H. Khorshidi, A. Hassani-Saleh, "Reflection of rays on connected flat reflectors and parametric curved mirrors", Mathematics Interdisciplinary Research, 2023, (10.22052/MIR.2023.248712.1388).

Languages

- English (Professional proficiency)
- Persian (Native)