Omid Karimi

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Omid Karimi | O-Karimi
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Overview

Software engineer with mechanical engineering background and Python/Django development experience. Proven track record in backend development, computational modeling, and cross-disciplinary problem solving

Education

- **Gisma University of Applied Sciences** *October 2024 - Currently*
  Bachelor's in Computer Sciences Berlin, Germany
  - Current Average Grade: 95.4/100
- **Sharif University of Technology - SUT** *September 2020 - March 2024*
  Master's in Mechanical Engineering in Applied Design field Tehran, Iran
  - CGPA: 14.76/20
- **Iran University of Science and Technology - IUST** *September 2015 - September 2020*
  Bachelor's of Science in Mechanical Engineering Tehran, Iran
  - Current Average Grade: 15.26/20
- **Allame Helli Pre-University** *October 2014 - June 2015*
  Pre-University Certificate in Mathematics Tehran, Iran
  - GPA: 17.76/20
- **Allame Helli High school** *October 2011 - June 2014*
  High school Diploma in Mathematics and Physics Tehran, Iran
  - CGPA: 19.14/20

Experience

- **Shopino** *August 2022 - July 2024*
  Python - Backend Developer Tehran, Iran
  - Developed and maintained backend systems for company projects using Django framework
  - Collaborated with cross-functional teams to design, implement, and optimize software solutions
  - Contributed to the development of scalable and secure applications
  - Actively participated in team meetings, offering valuable insights and solutions
- **NODET Schools** *June 2016 - June 2022*
  Physics and Simulation Teacher Tehran, Iran
  - Implemented different methods of teaching like using animations to explain physics concepts
  - Designed new curriculum plans for physics and computational physics, including advanced physics topics

Projects

- **Book club Telegram bot: A Book club management Bot** *September 2023 - December 2023*
  Tools: Python, MySQL
  - Unifying previously scattered data base
  - Implemented group management, members management and events notification
- **Ducted Fan: Implementing ducted fan technology for drones** *September 2016 - September 2017*
  Tools: Abaqus, Catia, Ansys, Matlab, Arduino
  - Designing a new type of drone with one propeller
  - Implementing innovative movement system

Skills

- **Programming Languages:** Python, C++
- **Web Technologies:** HTML5, CSS3, Django REST Framework, FastAPI, JSON
- **Database Systems:** MySQL, SQLite
- **Cloud Technologies:** Heroku, AWS (basic)
- **DevOps & Version Control:** Git, GitHub, Docker (basic), GitLab, CI/CD pipelines (conceptual)
- **Specialized Area:** Finite Element Analysis (FEA), Robotics Simulation, Sensor Integration, Control Systems
- **Mathematical & Statistical Tools:** MATLAB, SciPy, Excel, LaTeX
- **Other Tools & Technologies:** VS Code, Linux/Unix, Postman
- **Research Skills:** Scientific writing, Literature review, Experimental design, Technical documentation, Numerical modeling, Academic presentations

Honors and Awards

- **Among the top 0.2% in Master's university entrance exam** *June 2020*
  Iran's National Education Assessment Organization
  - Ranking in between 8 and 24 in different sub-fields of mechanical engineering out of 8000+ participants
- **Among the top 0.9% in Bachelor's university entrance exam** *June 2015*
  Iran's National Education Assessment Organization
  - Ranking in between 1510 in Mathematic and Physics out of 167000+ participants
- **Best Presentation and Meritorious Award for Best Use of Tools** *September 2013*
  Iranian Physics Society student's competition
  - The award was for virtual lab project with computational modeling
  - With this modelings I could simulate rotational movements without using rotational dynamic formulas

Leadership Experience

- **Leader of the Competitions Section of SSME** *May 2017 - May 2018*
  Mechanical Engineering department of Iran University of Science and Technology
  - Developed ideas to designing competitions
  - Managing competitions, Scheduling and providing resources for each competition
  - Holding more than 5 competitions in a year from university level to the national level
- **Ducted Fan Project Leader** *October 2016 - October 2017*
  Independently working with Professor Mohammadi
  - Providing resources for the project
  - Leading design of the ducted fan
  - Acted as liaison between team, professor and the university

Additional Information

- **Languages:** English (C1), Persian (Native), German (A2), Turkish (A1)
- **Interests:** Game Design, Sports, Algorithms

References

1. **Dr. Narjes Nikzad Khasmakhi**
   Professor, Computer Science Department
   Gisma University of Applied Sciences
   Email: narjes.nikzad@gisma-education.com
   Relationship: Teacher at Gisma university
2. **Dr. Siavash Kazemirad**
   Assistant Professor, School of Mechanical Engineering
   Iran University of Science and Technology
   Email: skazemirad@iust.ac.ir
   Phone: +98-21-77240540 Ex: 8923
   Relationship: Bachelor's thesis professor
3. **Dr. Bijan Mohammadi**
   Full Professor, School of Mechanical Engineering
   Iran University of Science and Technology
   Email: bijan_mohammadi@iust.ac.ir
   Phone: +98-21-77240540 Ex: 2967
   Relationship: Ducted Fan project supervisor