AMIRMOHAMMAD FALLAH

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EDUCATION

Deakin University, Melbourne, Australia   Feb 2024 — Expected: Nov 2025
Master of Information Technology

Guilan University, Rasht, Guilan, Iran   Sep 2018 — Aug 2023
B.Sc in Computer Engineering (Full Scholarship)   CGPA: 14.64 / 20

National Organization for Development of Exceptional Talents (NODET), Mirza Koochak-Khan Division
High School, Rasht, Guilan, Iran   2017 - 2018
Pre-university (Mathematical Sciences)   CGPA: 18.44 / 20

National Organization for Development of Exceptional Talents (NODET), Mirza Koochak-Khan Division
High School, Rasht, Guilan, Iran   2014 - 2017
Diploma (Mathematics and Physics)   CGPA: 18.24 / 20

ENTREPRENEURIAL EXPERIENCE

PlusGPT (`https://plusgpt.ir`)
Founder

- Led a team of a software developer, a graphic designer, and a marketing strategist.
- Built AI solutions for students powered by ChatGPT API, such as PDF interpretation, and audio transcription.
- Managed the project utilizing the Scrum framework using Jira, Leading Sprint planning, daily Scrum, and retrospective meetings.

WORK EXPERIENCE

MyClasscity, Online Educational Institution   Rasht, Iran
Full-time Software Engineer   Aug 2023 - Present

- Developed the platform on front-end and back-end using JavaScript, PostgreSQL, NodeJS, ReactJS, and NestJS.
- Enhancing MyClasscity's Learning Management System by adding features and removing redundancies.
- Designing Software Architecture and implementing it using cloud-based technologies such as PaaS, IaaS, DBaaS.

MyClasscity, Online Educational Institution   Rasht, Iran
Part-time Software Developer   May 2022 - Aug 2023

- Developed the platform on front-end and back-end using JavaScript, PostgreSQL, NodeJS, ReactJS, and NestJS.
- Enhancing MyClasscity's Learning Management System by adding features and removing redundancies.

Rayka Software Consulting   Rasht, Iran
Part-time Software Developer   Feb 2021 - May 2022

- Worked on Golang, serverless technology, and AWS in the back end
- Experienced in AWS Lambda, DynamoDB, SNS, SQS, and SES.
- Tested, and reviewed features implemented by other developers working on the team.
- improving the user interface, testing, and adding features to all mobile, tablet, and desktop versions.

TEACHING ASSISTANT EXPERIENCES

Fundamental Programming Course (C++)   University of Guilan
Supervisor: Dr. S.M. Shekarian   Fall 2020

- Designed and corrected 6 weekly assignments and 1 final project, Interviewed students, and analyzed plagiarism for their projects.

RESEARCH PAPERS

Development of a Multiple Convolutional Neural Network for Data Recovery of Faulty Greenhouse Sensors on an IoT Platform   Under Review
Computers and Electronics in Agriculture
A. Fallah, V. A. Moghaddam, M. Aminian, S.M. Shekarian

- Core member, Pioneer, Software Architecture Designer, Electronics Designer, Machine Learning Researcher

Blood Glucose Level Prediction for Type 1 Diabetes Patients using Deep Learning   Published *(Open →)*
Iranian Journal of Biomedical Engineering
S.S. Razavinezhad, A. Fallah, S.A. Mirroshandel

- Core member, Machine Learning Researcher, Data Analyst

TEACHING EXPERIENCES

Python Tutor
MyClasscity, Online Educational Institution   Aug 2019 - Sep 2020

- Teaching basic algorithms to 10-15 high-school students
- Teaching Python programming Language
- Correcting students' assignments

PROJECTS

Forecasting and Dynamic Allocation of Resource Usage of a Server-less Function Using a Deep Learning Approach
Project Link: `https://github.com/amirmfallah/faas-dynamic-resource-allocation`

A Machine Learning Approach to Classify the Chest X Rays of Healthy, Pneumonia, and Corona Virus Infection Affected Patients using Deep CNN Networks
Project Link: `https://github.com/amirmfallah/chest-xray-classification`

Digikala's Comments Spam Classification using Deep Merge Neural Network
Project Link: `https://github.com/amirmfallah/digikala-comment-classification`

Food Delivery Web Application for Mobydick Franchise Restaurants   Rasht, Iran
Project Link: `https://github.com/amirmfallah/mobydick-backend`

SKILLS

- **Technical Expertise:** Artificial Intelligence, Deep Learning, Machine Learning, Natural Language Processing, Image Processing
- **Non-Technical Expertise:** Innovation, Leadership, Management, Problem Solving, Public Speaking, Technical Writing
- **Programming Languages:** C/C++, Java, Python, JavaScript, TypeScript GoLang
- **Web Development Tools:** HTML, CSS, ReactJS, NestJS, Angular, ExpressJS, MongoDB, PostgreSQL, Prisma
- **Data Science Tools:** Jupyter Notebook, Numpy, Pandas, scikit-learn, SQL
- **Artificial Intelligence Tools:** Hugging Face, Keras, PyCharm, PyTorch, Tensorflow
- **Cloud Computing Tools:** Amazon AWS, Microsoft Azure

CERTIFICATIONS

1st Place in RoboCup IranOpen Junior Soccer B Light Weight Super League
Issued by RoboCup IranOpen 2016, Tehran, Iran   (Open →)

Certificate of Attendance to Machine Vision Workshop
Issued by SharifCup 2014, Sharif University   (Open →)

LANGUAGES

Persian: Native   **English:** IELTS (L: 8.5, R: 6, W: 6, S: 7.5, Band Score: 7)   **German:** Beginner