

Farbod Fooladi

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SUMMARY

Software Engineer with 3+ years of experience designing and building scalable backend and full-stack applications.

Strong background in C#/.NET, RESTful APIs, database design, and performance optimization. Experienced in CI/CD, Docker, and Agile development, with a solid foundation in problem-solving and clean, maintainable code.

Comfortable collaborating with cross-functional teams and mentoring junior developers.

TECHNICAL SKILLS

- **Programming Languages:** C#, JavaScript, TypeScript, java, Python
- **Backend Development:** .NET, ASP.NET Core, RESTful API Design, Authentication & Authorization, OOP, SOLID Principles
- **Frontend Development:** React, HTML, CSS, JavaScript
- **Databases:** MySQL, MongoDB, SQL, Database Design & Query Optimization
- **DevOps & Tools:** Docker, Git, GitHub Actions, CI/CD Pipelines
- **Software Engineering Practices:** Agile/Scrum, Code Reviews, Debugging, SDLC
- **Data & Analytics (Supporting Skill):** Python, Pandas, NumPy (for data analysis and experimentation)

WORK EXPERIENCE

Back of House Team Member

Slim Chickens

Jun 2025 – Present

- Worked in a fast-paced, high-pressure environment requiring accuracy, time management, and teamwork.
- Followed strict procedures and quality standards while collaborating closely with team members to meet operational targets.

Volunteer Coding Mentor

Coding Club, University of Essex

Dec 2024 – Jun 2025

- Mentored 20+ undergraduate students in Python, JavaScript, and software development fundamentals.
- Assisted students with debugging, problem-solving, and understanding clean coding practices.
- Strengthened communication, leadership, and mentoring skills through 40+ hours of direct coaching and teamwork.
- Supported academic projects and coursework, contributing to a 95% student satisfaction rate.

Software Engineer

Namaad Co.

Dec 2023 – Sep 2024

Tech Stack: C#, .NET, ASP.NET Core, MySQL, Docker, GitHub Actions

- Engineered and optimized scalable RESTful APIs in .NET, improving system performance and reducing average response time by 35%.
- Refactored backend services following OOP and SOLID principles, decreasing production bugs by 20%.
- Implemented CI/CD pipelines with GitHub Actions and Docker to streamline deployments and reduce release errors.
- Collaborated with product managers, QA, and developers to translate business requirements into reliable technical solutions.
- Conducted code reviews, debugging, and root-cause analysis to ensure code quality, improve stability, and support junior developers.

Full-Stack Developer

Namaad Co.

Jun 2021 – Dec 2023

Tech Stack: C#, .NET, React, JavaScript, MySQL, MongoDB

- Developed and maintained 5+ full-stack web applications supporting 500+ active users.
- Built backend services and APIs integrated with MySQL and MongoDB databases.
- Improved database query performance by up to 40% through optimization and schema refinement.
- Delivered features end-to-end, from requirement analysis and implementation to deployment and support.
- Collaborated in Agile teams to ensure timely delivery and high-quality software releases.

REMARKABLE PROJECTS

University Management System – Full-Stack Web Application

Tech: React, Node.js, MongoDB

- Designed and implemented a full-stack system for managing students, courses, and enrollment workflows.
- Developed RESTful APIs and integrated them with a MongoDB backend.
- Implemented authentication and role-based access control.
- Focused on modular architecture, validation, and error handling.

Hive Game – AI Agent (Python, Jupyter)

- Built an intelligent Hive board-game agent in Python capable of strategic decision-making and opponent modeling.
- Implemented game logic to surround the opponent's queen bee while defending its own, utilizing optimal piece placement strategies.
- Applied heuristic-based tactics and evaluated different strategies to improve win probability in simulated matches.

Coursera Recommender System – Database Lab (Python, SQL, APIs)

- Developed a course recommendation engine by integrating Coursera API for data collection and storing information in a structured SQL database.
- Applied data analysis and filtering techniques to deliver personalized course suggestions based on user preferences and history.
- Enhanced recommendation relevance and usability for 1000+ sample users in a lab environment.

Movie Recommendation System – Machine Learning (Python, Pandas, Scikit-learn)

- Designed a recommendation platform using a dataset of 9,000 movies and 700 users, implementing content-based, collaborative, and hybrid models.
- Delivered personalized movie suggestions with improved accuracy and diversity, achieving significant performance gains over baseline methods.
- Integrated data preprocessing, feature engineering, and evaluation pipelines for end-to-end automation.

Quadcopter Image Detection – Robotics & Deep Learning (Webots, RL, CNN)

- Simulated an autonomous quadcopter drone using Webots to perform object tracking and flight stabilization.
- Implemented reinforcement learning for adaptive navigation and balance control in dynamic environments.
- Integrated a convolutional neural network (CNN) for real-time clothing type recognition from aerial images.

EDUCATION

Master of Data Science

University of Essex

2024 - 2025

- Focus: Machine Learning, Data Analytics, Deep Learning, Big Data Technologies
- Thesis Title: Developing a Machine Learning-Based Movie Recommendation System

Bachelor of Computer Science

Shahid Beheshti University (SBU)

2019 – 2024

- Thesis Title: Anomaly log detection based on semi-supervised methods