

Zahra Amooyi Asrami

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Computer Engineering graduate with 10+ years of experience in software development, programming education, and the design and implementation of web-based and enterprise systems. Experienced in C#, ASP.NET Core/MVC, JavaScript, SQL, and Python, with a track record of developing and delivering 150+ software systems and leading software development teams.

EDUCATION

- **B.Sc. in Computer Engineering (Software)** | Mazandaran University of Science and Technology, Behshahr, Iran | 2012 - 2016
 - Final Project: Web-based University Association Platform emphasizing usability, accessibility, and intuitive interfaces for remote collaboration and visual data exploration. Grade: 20.00/20
 - GPA: 14.58/20
 - Selected Relevant Coursework: Programming Languages Design & Implementation (17.00/20), Database (16.00/20), Software Engineering II (15.50/20), Algorithms Design (15.00/20), Information Storage & Retrieval (14.25/20), Artificial Intelligence (13.50/20), Computer Networks (20.00/20)

RESEARCH INTERESTS

- Software Engineering • Intelligent & Interactive Systems • Human-Computer Interaction • Data-Driven Applications
- Natural Language Processing • Digital Health

TECHNICAL SKILLS

- **Programming:** C#, Python, JavaScript, C++, SQL
- **Backend & Web:** ASP.NET Core/MVC, Web API, Node.js, SignalR, REST APIs
- **Frontend:** React.js, HTML, CSS, Bootstrap, AJAX, Kendo UI, PWA
- **Databases:** SQL Server, MongoDB
- **Tools:** Git, Postman, Visual Studio, VS Code

RESEARCH EXPERIENCE

- **Research Project | Ongoing**
 - “A Conversational Digital Assistant for Supporting the Mental Health of Older Adults”
 - Investigating conversational AI interfaces for older adults, focusing on usability, accessibility, transparency, and human-AI interaction.
 - Exploring interactive visualization and analytics approaches to improve users’ understanding of AI-generated information and support engagement and trust.

HONORS & AWARDS

- **1st Place, Programming Marathon Olympiad (2022):** Awarded first place and a cash prize as part of a two-person team for developing a user-centered real estate platform featuring an intuitive interface, accessible design, and optimized input workflows.
- **Full Undergraduate Merit Scholarship:** Received a full-tuition scholarship at Mazandaran U. of Science and Technology for academic excellence (2012–2016)

TEACHING & ACADEMIC EXPERIENCE

- Founder & Chief Lecturer, **Farayaneh Educational Institute** – Sari, Iran (2018 – Present)
 - Trained 1,500+ students and authored programming textbooks; many graduates have gone on to work in technology-related fields.
- Volunteer Tech Instructor, **Iranian Relief Committee** – Mazandaran, Iran (2017 – Present)
 - Taught basic computer skills and introductory programming to 200+ underserved youth and adults, with a focus on digital literacy and accessible technology.

- Contract Programming Instructor, **University of Science and Technology of Mazandaran** – Behshahr, Iran (2016 – 2017)
 - Taught C# and web development to 100+ undergraduates; aligned curriculum with industry needs via Entrepreneurship Center collaboration and mentored capstone project teams.

PROFESSIONAL EXPERIENCE

- **CEO & Lead Software Developer** | PayamAfzar Avang Tabarestan Co. – Sari, Iran (2017 – Present)
 - Led a team of 10 developers in designing, developing, deploying, and maintaining web-based and enterprise systems using C#, ASP.NET, SQL Server, and JavaScript.
- **Software Developer** | Rayan Electronic Sepehr Jahangir Co. – Sari, Iran (2016 – 2017)
 - Designed and deployed a province-wide C# electricity monitoring system using real-time data collection and visualization dashboards, improving monitoring efficiency and reducing reliance on manual processes.
- **Software Developer** | Jadooye Fekr Programming Co. – Sari, Iran (2015 – 2016)
 - Upgraded a national utility company's CRM, improving system responsiveness and usability for remote teams.
- **IT Intern** | Neka Cement Factory (Informatics Dept.) – Neka, Iran (Summer 2015)
 - Redesigned the corporate website for users with limited digital literacy, using visual aids and simplified navigation.

SELECTED SOFTWARE PROJECTS

- **PhysioCare Rehabilitation Software** (2025)
 - Designed and developed a digital rehabilitation and clinic management platform for older adults, supporting multiple physiotherapists and technicians.
 - Implemented workflows for tracking patient treatments, daily equipment usage, and treatment procedures.
 - Developed an interactive body-map interface for recording treatment devices and electrical modalities applied to specific anatomical areas.
- **Online Billing & Invoice Management Software** (2025)
 - Designed a user-centered invoicing platform with intuitive visual workflows, automated reporting dashboards, and accessible navigation to support operational efficiency and sales management.
- **Applied Research & Development Center E-Commerce Platform** – Takato.ir (2023)
 - Designed and developed a multi-module web platform integrating e-commerce, content management, CRM, role-based dashboards, SMS services, reporting, and audit logging.
 - Implemented responsive interfaces and user-centered workflows for complex product and organizational data.
- **Educational Management Platforms** – Farrayaneh.ir & Mehrangiz.org (2021)
 - Developed role-based educational management platforms for 50+ institutes, supporting distinct workflows for administrators, teachers, students, staff, and students' families.
 - Implemented role-based access control and features for student management, educational content, attendance, communication, and administrative workflows.
- **Multi-Level Travel Booking Platform** – TetisSari.ir (2020)
 - Developed a high-concurrency flight booking platform with accessible search and payment workflows.
- **FaraPazhoh Virtual Library Platform** (2020)
 - Developed an online research platform for publishing, discovering, and accessing academic articles, theses, projects, and other research materials.
 - Implemented online purchasing and revenue distribution workflows for authors and researchers; adopted by 50+ Iranian universities.

CERTIFICATIONS

- **Python, C# & SQL Programming** - Technical and Vocational Training Organization (TVTO), Iran (2025–2026)
- **AI-Assisted Academic Paper Writing** - Sari Azad University, Iran (2025)
- **Advanced Web Development (MVC, C#, SQL)** - Technical and Vocational Training Organization (TVTO), Iran (2018–2021)
- **ASP.NET WebForms & Software Systems Design** - Mazandaran University of Science and Technology (2017–2018)