EHSAN AZAMI | WWW.EHSANAZAMI.COM

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SUMMARY OF INTERESTS AND ACTIVITIES

Passionate about research and development in modern areas of computer science, including data science, cloud computing, artificial intelligence, speech and image processing and innovative software engineering methodologies.

Experienced in designing and implementing both web and windows-based projects. Strong background in entrepreneurship, project planning and team leadership.

Actively involved in martial arts, with a focus on controlled-style karate.

COMPUTER SKILLS

Full-Stack Web Expertise and Team/Product Management

- Expert in PHP and backend development using the Laravel framework, with a strong emphasis on scalable architecture and clean code principles.
- Proficient in designing and implementing RESTful APIs for modern web and mobile applications.
- Familiar with DevOps principles and experienced in working with CI/CD pipelines, containerization using Docker, and orchestration with Kubernetes in automated deployment environments.
- Familiar with ASP.NET and Next.js for backend and full-stack development scenarios for effective collaboration and team management.
- Familiar with React for front-end development for effective collaboration within frontend teams.
- Experienced in managing software development teams using Agile methodologies, particularly Scrum, supported by tools such as Jira.
- Solid experience in CMS development and customization, including WordPress, with expertise in theme and plugin architecture.
- Understanding of business process management, e-commerce platforms, and commercial dynamics of social networks.

Development in windows and other platforms

- Experienced in C# programming using object-oriented principles.
- Knowledgeable in various programming paradigms and algorithmic approaches.
- Skilled in desktop application development using WPF and Silverlight.
- Skilled in Java, C++ and Visual Basic programming languages.
- Experienced in software modeling and documentation using UML.
- Familiar with Android application structure and development workflows, enabling effective collaboration with Android development teams.

· Proficient in working with databases such as Microsoft Access, MS SQL Server, MySQL, and SQL-based environments.

Artificial Intelligence and Data Science Development

· Experienced in the full CRISP-DM lifecycle for data mining and machine learning projects, from business understanding and data preparation to modeling and evaluation.

· Strong foundation in data mining concepts and analytical thinking for solving real-world problems.

· Proficient in Python programming for data science, with hands-on experience using Jupyter Notebook for prototyping, visualization, and experimentation.

· Extensive experience with key machine learning libraries and frameworks, including Scikit-learn, TensorFlow, Keras, Pandas, NumPy, Seaborn, and Matplotlib.

· Implemented various supervised and unsupervised learning models such as Decision Trees, Random Forests, XGBoost, Support Vector Machines (SVM), K-Means Clustering, and Neural Networks.

· Skilled in feature engineering, hyperparameter tuning, model evaluation metrics (AUC, F1-score, confusion matrix), and cross-validation strategies.

· Familiar with data preprocessing pipelines, anomaly detection, dimensionality reduction (e.g., PCA, t-SNE), and ensemble learning techniques.

· Capable of interpreting model behavior and presenting insights through data visualization and reporting tools.

· Experienced in deploying ML models and integrating them into production environments.

· Skilled in computer vision and image processing using OpenCV , with experience in real-time pipelines, object detection, feature extraction, and integration with machine learning models.

EXPERIENCE

[2024 - Present] [Head of IT Committee], *[Iranian Deaf Sports Federation – Karate Committee]*

. Led the federation's digital infrastructure, overseeing software systems, event technologies, and IT operations in national deaf karate events.

[2019 - Present] [IT Manager and Lead Programmer], *[MosabPooya CO]*

. Managed backend systems and technical infrastructure for the Mivechy platform, directing the programming team and overseeing development cycles.

[2021 - 2023] [Head of IT Committee], *[Iranian Karate Federation Leagues Organization]*

. Oversaw IT strategy and systems for organizing national league competitions, including event registration systems, data management, and live scoring technologies.

[2013 - 2018] [Freelance Software Developer], *[Collaborated with multiple organizations]*

· Delivered custom software and web solutions to clients or entrepreneurial projects such as Setayesh Co., VOSS Iran, Iran Millennium Center, Fit Shape, Bermooda Academy, AID Team and Source Nevis Team.

· Handled full-stack development, team coordination, and long-term support.

[2014] [Membership], *[IKIU - International University of Qazvin]*

· Contributed to technical and research-oriented student activities focused on innovation and applied computer science.

[2014] [Founder and institute supervisor], *[Tehran ICT institute]*

· Founded and supervised an institute focused on preparing students for computer science festivals in Tehran's second district.

EDUCATION

[2020 - 2022] [M.Sc. in Artificial Intelligence & Expert Systems], *[Azad university (IAU) , Tehran South Branch – top student]*

[2014 - 2018] [B.Sc.in Software Engineering], *[International university of Qazvin (IKIU)]*

[2013] [Diploma in Mathematics & Physics], *[Alavi High school, Tehran]*

HONORS AND ACHIEVEMENTS

· Member of Iran's National Elites Foundation, [2013]

· Gold Medalist, 15th Kharazmi Youth Festival – Computer Science Category, [2013]

· Top Rank in Tehran, Kharazmi Youth Festival – Chemistry Category (2012)

· 4th Dan Black Belt in Karate – Controlled Style (2020)

· Multiple medals in provincial and national karate competitions

RESEARCH PROJECTS AND EXPERIMENTS

Master Thesis – Video Retrieval technique

Master's Thesis entitled: "A Content-Based Video Retrieval Method Using Object Detection and Deep Neural Networks"

Conventional video retrieval methods often rely on global frame-level features for comparing and retrieving videos. However, this approach may lead to the loss of core video content, especially when videos with similar objects appear in different backgrounds. For instance, a video of a boat at sea might not be matched with a video of the same boat on land due to differing background features, even though the main subject is identical. Conversely, visually similar backgrounds may incorrectly link unrelated videos. To address this limitation, this study proposes a novel content-based video retrieval method that focuses on object-level features using unsupervised object detection and a VGG16 convolutional neural network. Experimental results indicate that the proposed method outperforms traditional techniques and offers a more accurate representation of video semantics.

CSM Technology

Winner of the Gold Medal at the 15th Kharazmi Youth Festival (Computer Science Category)

CSM Technology is an innovative communication platform designed for service developers, end-users, and organizations. It enables the secure exchange and intelligent processing of non-conventional data, supports electronic signal acquisition for indirect device control, and offers tools for customizing and privatizing communication channels. CSM positions itself as a smart communication layer to meet modern connectivity needs across various domains.

Iranian chemistry resource software with the material analyzer device "Elementer"

Tehran's top ranking in Kharazmi youth award festival

project is the most powerful chemical analyst and data reference. The Capabilities of this software include: Updated periodic table along with information regarding each element, Photos and videos archive to see the different states of matter in different situations, section of analysis of the crystal structure and the spatial geometry of each element, section of forming and compositing ability of the alloy and the isotope analysis of each element, part of the safety assessment of each element of the latest information from NFPA organization and review economic and mining necessity, Parts to explore a variety of wavelength range in different situations and the emission-line review, Evaluation of organic and inorganic compounds forming each element, parts of scanning elements structure by graphical Bor's model, Laboratory for virtual simulations, elements atlas, a huge library of thousands of educational books and specialist chemistry board.