

# Kamyar Nazeri

February, 2024 - Toronto, ON

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## Work Experience

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**Principal Software Architect** | Jan. 2022 - PRESENT | Toronto, Canada.

**Harris Computer** . [harriscomputer.com](https://harriscomputer.com)

- Direct the design, development, and deployment of enterprise SaaS and PaaS solutions (Cloud / On-Prem).
- Direct and execute the upgrade of the main codebase from .NET Framework to .NET (over 2.5 million lines of code) resulting in future-proof architecture, higher performance, and 50% reduction in source generation & compile time.
- Lead the re-architecting of a large-scale enterprise monolith application into a (micro)-services-oriented structure, enhancing scalability (saga processes), cloud readiness (containerization), and monitoring (logging & telemetry).
- Initiate the modernization of the version control system by implementing the Gitflow workflow, migrating over 120,000 commits from an SVN server to Git, preserving all historical records (Artifactory, GitBucket).

**Senior Software Developer** | Jun. 2019 - Jan. 2022 | Toronto, Canada.

**Harris Computer** . [harriscomputer.com](https://harriscomputer.com)

- Conduct monthly R&D code review sessions and provide mentorship to junior and co-op developers.
- Modernized REST API: integrated monitoring, telemetry logging, and stronger security measures (OWASP).
- Develop the semantic & full-text search API: Parsing, Indexing, Ranking, and Mapping for major relational databases.

**Consultant Software Architect** | Jan. 2022 - Apr. 2023 | Los Angeles, USA.

**Amove Technologies** . [amove.io](https://amove.io)

- Direct and design a highly scalable, real-time data migration solution across various cloud storage services. Petabyte-scale transfers between AWS, Azure, GCP, and S3 compatible storages.
- Lead the development of the cross-platform desktop client for unified management of cloud storage services for AWS, Azure, GCP, and S3 compatible, on Windows, MacOS, and Linux.

**Research & Teaching Assistant** | Jan. 2017 - Jun. 2019 | Toronto, Canada.

**Faculty of Science, Ontario Tech University** . [mcsc.science.uoit.ca](https://mcsc.science.uoit.ca)

- Researcher in Machine Learning & Generative Models for Computer Vision. | [ImagingLab.ca](https://imaginglab.ca)
- Teaching assistant for the undergraduate science and engineering courses:  
Calculus for Science (Math 1000), Calculus I for Engineering (Math 1010), Calculus II for Engineering (Math 1020), Linear Algebra for Engineering (Math 2050)

**Senior Lead Developer & Manager** | Mar. 2012 - Dec. 2016 | Tehran, Iran.

**RaeenSystem Company** . [harriscomputer.com](https://harriscomputer.com)

- Evaluate and interview candidates for technical positions.
- Member of the design team of the company's distributed financial web application.
- Lead developer in software/hardware integration of equipment for hospitality, retail, and travel industries.
- Lead a team of 20, including developers and operations as a technical manager of Products & Services department.

**Senior Developer** | Feb. 2007 - Mar. 2012 | Tehran, Iran.

**RaeenSystem Company** . [raeensystemgroup.ir](https://raeensystemgroup.ir)

- Design and development of the company's web framework, SAP .
- Build and manage the company's reactive web components.
- Lead developer of the financial web app for Iran Touring & Tourism Investment Co. (over 100 cities nationwide).

**Software Developer** | Apr. 1999 - Dec. 2006 | Isfahan, Iran.

**ExirSoft Company** .

- Participated in the development of the first Persian e-commerce websites launched in 2000. | [persianflora.com](https://persianflora.com)
- Worked as a developer in the company's main projects including CMS, Live Help System, and Website Statistics.

## Technical Expertise

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**Languages:** C#, JavaScript, TypeScript, Python, Rust, SQL, PowerShell, LaTeX.

**Frameworks & Technologies:** Git, SVN, Docker, gRPC, GraphQL, REST, PyTorch, NumPy, OpenCV.

**Databases:** Microsoft SQL Server, PostgreSQL, MongoDB, Redis.

**IDEs & Tools:** MS Visual Studio, VSCode, JetBrains Rider, Swagger OpenAPI, Grafana, MS Office.

### Technical Experiences:

- Proficient in .NET software development (since its release in 2002).
- Proficient in data structures, algorithms, and system design.
- Proficient in object-oriented design patterns and principles, clean code & architecture, and Test-Driven Development (TDD) & Domain-Driven Design (DDD).
- Experienced in database analysis and design, for relational, NoSQL, and in-memory database systems.
- Experienced in scalable API design and development (REST, gRPC, GraphQL, OpenTelemetry, OpenAPI).
- Experienced in overseeing the full software lifecycle: architecture, analysis, design, development, and support.
- Experienced in service-oriented, data-driven, client-server, desktop/web applications design & development.
- Experienced in scalable, highly-available distributed and cloud-based architecture (AWS, Azure, and GCP).

## Education

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**Ontario Tech University** | Jan. 2017 - May. 2019 | Oshawa, ON, Canada

**Master of Science** in Modeling & Computational Science - AI (GPA: 3.88/4.00) .

**Isfahan University of Technology** | Sep. 1999 – Jul. 2004 | Isfahan, Iran

**Bachelor of Science** in Electrical Engineering - Control .

## Publications

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**Edgeconnect: Structure-guided image inpainting using edge prediction** | Nov. 2019

K. Nazeri, E. Ng, T. Joseph, F. Qureshi, and M. Ebrahimi *Proceedings of the IEEE/CVF International Conference on Computer Vision*. [arXiv: 1901.00212](#)

**Edge-informed single image super-resolution.** | Nov. 2019

K. Nazeri, H. Thasarathan, and M. Ebrahimi *Proceedings of the IEEE/CVF International Conference on Computer Vision*. [arXiv: 1909.05305](#)

**Image Colorization with Generative Adversarial Networks** | Jul. 2018

K. Nazeri, E. Ng, and M. Ebrahimi *Springers Lecture Notes in Computer Science, Proceedings of tenth international conference on Articulated Motion and Deformable Objects (AMDO)*, Palma, Mallorca, Spain. [arXiv: 1803.05400](#)

**Two-Stage Convolutional Neural Network for Breast Cancer Histology Image Classification** | Jun. 2018

K. Nazeri, A. Aminpour, and M. Ebrahimi *Springers Lecture Notes in Computer Science, Proceedings of International Conference on Image Analysis and Recognition (ICIAR)*, Póvoa de Varzim, Portugal. [arXiv: 1803.04054](#)

## Contributions

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**GitHub** | Oct. 2012 - PRESENT

Actively engaged in open-source initiatives through a number of public GitHub repositories.

<https://github.com/knazeri>

**StackOverflow** | Nov. 2011 - PRESENT

Top 2% overall contributor on StackOverflow, achieved the highest privilege of 'Trusted User' for quality engagement.

<https://stackoverflow.com/users/1041321/knazeri>

**Google Scholar** | Nov. 2018 - PRESENT

Notably contributed to the field of computer science, authoring publications amassing over 1,800 academic citations.

<https://scholar.google.com/citations?user=rld6wTAAAAAJ>