

# Kamyar Nazeri

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## Work Experience

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

**Harris Computer** . harriscomputer.com

- Directed the design and development of enterprise on-prem and SaaS solutions for utility billing systems.
- Led the architectural overhaul of the enterprise monolith into scalable microservices and saga processes.
- Initiated the current API modernization: OpenAPI, logging, telemetry, monitoring, automated documentation.
- Executed the transition of the main codebase from .NET Framework to .NET, covering +2.5 million lines.
- Delivered SR&ED tax incentives technical documentations, securing a 15% tax credit for 2021 and 2022.
- Initiated and led the adoption of Git, migrating the full history of +120,000 commits from SVN to Git.
- Implemented the Gitflow workflow —GitBucket, Artifactory.

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

**Harris Computer** . harriscomputer.com

- Conducted monthly R&D code review sessions and mentored junior and co-op developers.
- Enhanced the existing REST API security: OWASP standards, Veracode SAST/DAST, and PII compliance.
- Developed multiple identity management solutions for API authentication: SAML, JWT, OAuth 2.0, OpenID Connect.
- Implemented semantic and full-text search API: parser, indexer, ranker, and mapper for major relational databases.

**Consultant Software Architect** | Jan. 2022 - Apr. 2023 | Remote, United States.

**Amove Technologies** . amove.io

- Direct and design a highly scalable data migration solution across various cloud storage services —petabyte-scale transfers between AWS, Azure, GCP, and S3 compatible storages.
- Led 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

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

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

**RaeenSystem Company** . harriscomputer.com

- Evaluate and interview candidates for technical positions.
- Led a team of 20, including developers and operations as a technical manager of the Products & Services unit.
- Lead developer in hardware-software integration of equipment for hospitality, retail, and travel industries.

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

**RaeenSystem Company** . raeensystemgroup.ir

- Design and development of internal reactive web UI framework —Raeen-UI.
- Build and manage 12 reactive web components for RTL languages based on jQuery and Raeen-UI frameworks.
- Lead developer in the financial web app for Iran Touring & Tourism Investment Co. (distributed in +100 cities).

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

**ExirSoft Company**

- Worked as a developer on more than 20 commercial websites.
- Worked as a developer on projects including CMS, live-help chat system, and website statistics.
- Participated in the development of the first Persian e-commerce website launched in 2000. | PersianFlora.com

## Technical Expertise

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

**Technologies:** Git, SVN, Docker, gRPC, GraphQL, REST, ASP.NET, PyTorch, NumPy, OpenCV.

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

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

### Technical Skills:

- Well-versed in system design, clean code & clean architecture, object-oriented design patterns and principles, test-driven development (TDD) & domain-driven design (DDD).
- Specialized in large-scale .NET software design & development (since its release in 2002).
- Skilled & experienced in:
  - Database analysis and design, for relational, NoSQL, and in-memory database systems.
  - Scalable API design and development: REST, gRPC, GraphQL, OpenTelemetry, OpenAPI.
  - Service-oriented, data-driven, and client-server software applications design & development.
  - Scalable, highly-available distributed and cloud-based architecture: AWS, Azure, and GCP.
  - Full software lifecycle: architecture, analysis, design, development, and support.

## 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. Thasarthan, 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>