

Kamyar Nazeri

February, 2024 - Toronto, ON

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Work Experience

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

Harris Computer . harriscomputer.com

- Direct the design and development of enterprise on-prem and SaaS solutions for utility billing systems.
- Direct and execute the upgrade of the main codebase from .NET Framework to .NET: +2.5 million lines.
- Led the restructuring of large-scale enterprise monolith into scalable microservices and saga processes.
- Led the modernization of the existing API: OpenAPI, logging, telemetry, monitoring, and cloud readiness.
- Delivered SR&ED tax incentives technical documentations, securing a 15% tax credit for 2021 and 2022.
- Initiated 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, and API Keys.
- Developed semantic and full-text search API: parser, indexer, ranker, and mapper for major relational databases.

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

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](https://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

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

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

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](https://arxiv.org/abs/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](https://arxiv.org/abs/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](https://arxiv.org/abs/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](https://arxiv.org/abs/1803.04054)

Contributions

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>