Kamyar Nazeri

January, 2024 - Toronto, ON

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Work Experience

Principal Software Architect | Jan. 2022 - PRESENT | Toronto, Canada.
Harris Computer . harriscomputer.com
- Direct the design, development, and deployment of enterprise SaaS and PaaS solutions (Could / 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
- 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
- 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
- Researcher in Machine Learning & Generative Models for Computer Vision. | ImageingLab.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
- 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
- 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
- Worked as a developer in the company's main projects including CMS, Live Help System, and Website Statistics.

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

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

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
Active 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