Kamyar Nazeri

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Work Experience

Principal Software Architect | Jan. 2022 - PRESENT | Toronto, Canada.
Harris Computer . harriscomputer.com
- Direct the design and development of enterprise SaaS and PaaS utility billing system solutions.
- Direct and execute the upgrade of the main codebase from .NET Framework to .NET: +2.5 million lines of code.
- Led the restructuring of large-scale enterprise monolith into scalable microservices and saga processes.
- Led the modernization of API: OpenAPI, logging, telemetry, monitoring, and cloud-readiness.
- 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 REST API: OWASP security compliance, identity management solutions of SAML, JWT, OAuth 2.0, API Keys.
- Developed semantic & 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. | ImageingLab.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.
- Member of the design team of Raeen distributed financial web application.
- Led a team of 20, including developers and operations as a technical manager of the Products & Services unit.
- Lead developer in software-hardware 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 an internal reactive web framework (raeen).
- Build and manage 12 reactive web components for RTL languages based on jQuery and raeen web framework.
- Lead developer of the financial web app for Iran Touring & Tourism Investment Co. (distributed to +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 stats.
- Participated in the development of the first Persian e-commerce websites 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

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
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