MEHRAD AMIN ESKANDARI

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EDUCATION

Master of Science, Computer Science   Jun 2020

UCR – Riverside, CA   *GPA:3.8*

   Selected course work: Big Data, Data Base Management, GPU Computing, Network Security

Bachelor of Engineering, Computer Engineering   Feb 2016

Azad University – Tehran, Iran

   Selected course work: Concepts of Software Engineering, Data Retrieval, Computer Architecture

SOFTWARE ENGINEER EXPERIENCE

Graduate Assistant   March 2019 – March 2020

Bourns College of Engineering - UCR

- Designed, implemented, and recorded supplementary videos for the "Introduction to Programming" course to accelerate students understanding of programming concepts.

Full Stack Developer   May 2016 - Oct 2016

Asia Tech CO. – Tehran, Iran

- Created a fully interactive dashboard using ASP.NET, C#, and SQL for the backend and JavaScript for the frontend to facilitate customers' needs on managing their services.
- Developed an automated WinForms application to control a Telegram Bot API (Chat Bot), an application for users to check their service status, pay their bills, or upgrade their services through their phone.
- Wrote a script to instantly update the existing web application, increasing the reliability of services while minimizing server downtime.

Software Developer and Network Administrator   Jul 2012 - May 2016

Municipality of Region 7 – Tehran, Iran

- Used C# WinForms application, SQL database, Linq2Sql ORM, and DevExpress to develop an application for Customer Relationship Management.
- Designed network connections between 200+ computers and 4 servers using Cisco devices and Microsoft Active Directory to integrate data circulation and avoid data breaches.

PROJECTS

UCR STAR   https://star.cs.ucr.edu/

University of California – Riverside

- Added interactive features to ensure better user experience by using Vector Tiles to display data on the map
- Increased the performance of the entire application by designing a new way to display GeoJSON datatype which reducing the number of requests to the server

RedBase Database   https://www.github.com/mehradae

University of California – Riverside

- Added the support of Spatial Data as input and MBR indexing on top of the Standford's RedBase database

PUBLICATIONS

UCR-STAR: The UCR Spatio-Temporal Active Repository

- Tin Vu, Saheli Ghosh, Mehrad Amin Eskandari, and Ahmed Eldawy, SIGSPATIAL Special 11, (2), pages 34–40, 2019, DOI>10.1145/3377000.3377005

TECHNICAL SKILLS

- Programming Languages: Java, SQL, C#, JavaScript, Android, Python, C++, Scala
- Technologies: Spark, Hadoop, Git, SQL Server, MySQL, Soot, CUDA, .Net Framework, Docker