

# RAJAT KULKARNI

Arlington ,TX | (682) 408-1808 | rajatkulkarni48@gmail.com

[Github](#) [LinkedIn](#)

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## TECHNICAL SKILLS

**Programming Languages:** C#, Python, VB.NET, ASP.NET, HTML,CSS,ADO.NET Database

**Technologies:** MySQL, MS SQL Server, MS Access, DOS

**Tools/Platforms:** PowerBI, VisualStudio, .NET, MS Office Suite., GCP,Matlab,AWS,MATLAB

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## EXPERIENCE

### University of Texas at Arlington

Research Assistant

May 2024–Present

- Contributed to the research paper “**Automated Synthesis for In-Memory Computing**” Research-related tasks required automation and knowledge extraction. Leveraged Large Language Models (LLMs) on AWS to enhance research workflows.Successfully automated research insights, improving efficiency and reducing manual effort
- Needed an optimized method for selecting adders in research on in-memory computing. Developed Python code utilizing the ChatGPT API to streamline selection processes

### Accenture Solutions

Full Stack Developer

Jun 2020–Jun2022

- Optimized Web Application Performance:** Developed and maintained high-performance web applications using ASP.NET, C#, and Web Services, boosting response time by 25% through optimized APIs and enhanced data processing.
- Maximized Database Efficiency:** Optimized execution of 1,000+ SQL queries, leveraging SQL Server and ADO.NET to reduce latency by **25%**, significantly enhancing application performance
- Lead Development of C# application:**Designed a high-performance C# application capable of executing over 1,000+ SQL queries efficiently, leveraging SQL Server’s managed provider and ADO.NET for seamless database interaction by optimizing query execution and transaction management to reduce latency by 25%
- Streamlined Cross-Functional Collaboration:** Collaborated with cross-functional teams to simplify technical concepts for non-technical stakeholders, ensuring clear communication and fostering seamless project execution

### AiAdventures Pvt Ltd

.NET Intern

Jun 2019 – Feb 2020

- Performance bottlenecks in .NET applications impacted response time.Optimized Entity Framework relationships and refactored database interactions. Improved query execution speed by **21%**
  - I also worked on debugging and maintenance of existing .NET applications were time-consuming
  - Collaborate with the team to write clean, efficient, and maintainable C# code following best practices
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## PERSONAL PROJECTS

### Resume Screener using ML.NET

Nov 2023 – Dec 2023

Uses OCR to extract text from resumes, analyzes key sections (skills, experience, education) using ML.NET, and matches them with job descriptions using cosine similarity.

### Personalized News Aggregator

Dec 2023 - Jan 2024

Fetches news from multiple APIs (NewsAPI, Bing News, etc.), uses ML algorithms to analyze and recommend relevant articles based on user preferences.Provides an intuitive WPF/ASP.NET UI, allows users to like, save, or filter news, and delivers real-time alerts via SignalR and email digests for breaking news

### E-Commerce Website

Feb 2022 - Mar 2022

Built an ASP.NET Core MVC application with dynamic product listings, shopping cart, order management, and secure payment gateway integration (Stripe, PayPal, etc.). Optimized SQL queries, reducing page load time by 30% and improving scalability with lazy loading and pagination

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## EDUCATION

University of Texas at Arlington,TX

Aug 2022- May 2024