* Working experience

1. Worked as a Research & Development Engineer at Trio.ai, a startup focusing on NLP, for 3 years. Using C++ ,Python and Machine Learning.
2. Worked at Microsoft for 5.6 years, last position was SDE 2, focused on C# backend, data engineer. Using C#, Azure, SQL Server, ETL and data warehouse.
3. Worked at adSage as a DBA and data engineer for 5.5 years and as a software testing manager for 1 year. Using C#, SQL Server, ETL and data warehouse.

* Machine Learning Projects

1. Refer to "User Intent Recognition - Latest News Recommendation" in the "Project experience" section on page 1 of the resume.
2. Refer to "Text Classification - Product Recommendation" in the "Project experience" section on page 1 of the resume.
3. Refer to "Chinese Spelling Correction - team research project" in the "Project experience" section on page 1 of the resume.
4. Refer to "Sentence Similarity Calculation Engine" in the "Project experience" section on page 2 of the resume.
5. Refer to "Recommender System" in the "Appendix" section on page 6 of the resume.
6. Refer to "Large Language Model" in the "Appendix" section on page 7 of the resume.

* C++ Projects

1. Solved 229 ICPC regional and world finals problems. Refer to "ACM/ICPC algorithm contests training" on page 3 of the resume.
2. Refer to "User Intent Recognition" online service code in the "Project experience" section on page 1 of the resume.
3. Refer to "Text Classification" online service code in the "Project experience" section on page 1 of the resume.
4. Refer to "Sentence Similarity Calculation Engine" in the "Project experience" section on page 2 of the resume.
5. Refer to "In-memory data update mechanism for online services" in the "Appendix" section on page 5 of the resume.
6. Refer to "Implement a Memory Pool in C++" in the "Appendix" section on page 4 of the resume.

* Data Engineer and DBA experience

1. I have nearly 8 years of experience as a data engineer and DBA. Refer to "Work Experience" section on page 2 of the resume.
2. During the 5.6 years I worked for Microsoft, the first 3 years were focused on data projects, using ETL tools such as SSIS and Informatica to build data warehouses, and SSAS and ProClarity to build BI systems. Also responsible for performance tuning stored procedures, query statements and indexes.
3. In the 5.5 years that I have worked for adSage, 4.5 years have been focused on Microsoft outsourced data projects, using ETL tools to build data warehouses. At the same time, as the DBA of adSage, I am responsible for the performance tuning of stored procedures, query statements and indexes across the company.

* Research Projects

1. Refer to "Chinese Spelling Correction" in the "Project experience" section on page 1 of the resume.
2. Refer to "Paxos Algorithm Study" in the "Appendix" section on page 6 of the resume.

* C#, Azure and web Projects

1. Refer to “Refactoring MS short link services” in the “Project Experience” section on page 2 of the resume.
2. Refer to “Lock-free Hash Tables” in the “Appendix” section on page 5 of the resume.
3. Led a team of four people to create some internal web pages for Microsoft using AngularJS, MVVM and RESTful API over a period of four months around 2016.

* Web-based ERP systems projects

1. I created a web-based ERP system for Liu Ning Piano School using ASP, VB Scripts and SQL Server, from May 2005 to January 2006. The system is still running smoothly today (2024.10).
2. While I was at university, I started working part-time as a web designer.