

*David*  
Software Engineer

## Blog Projects and Something About Me

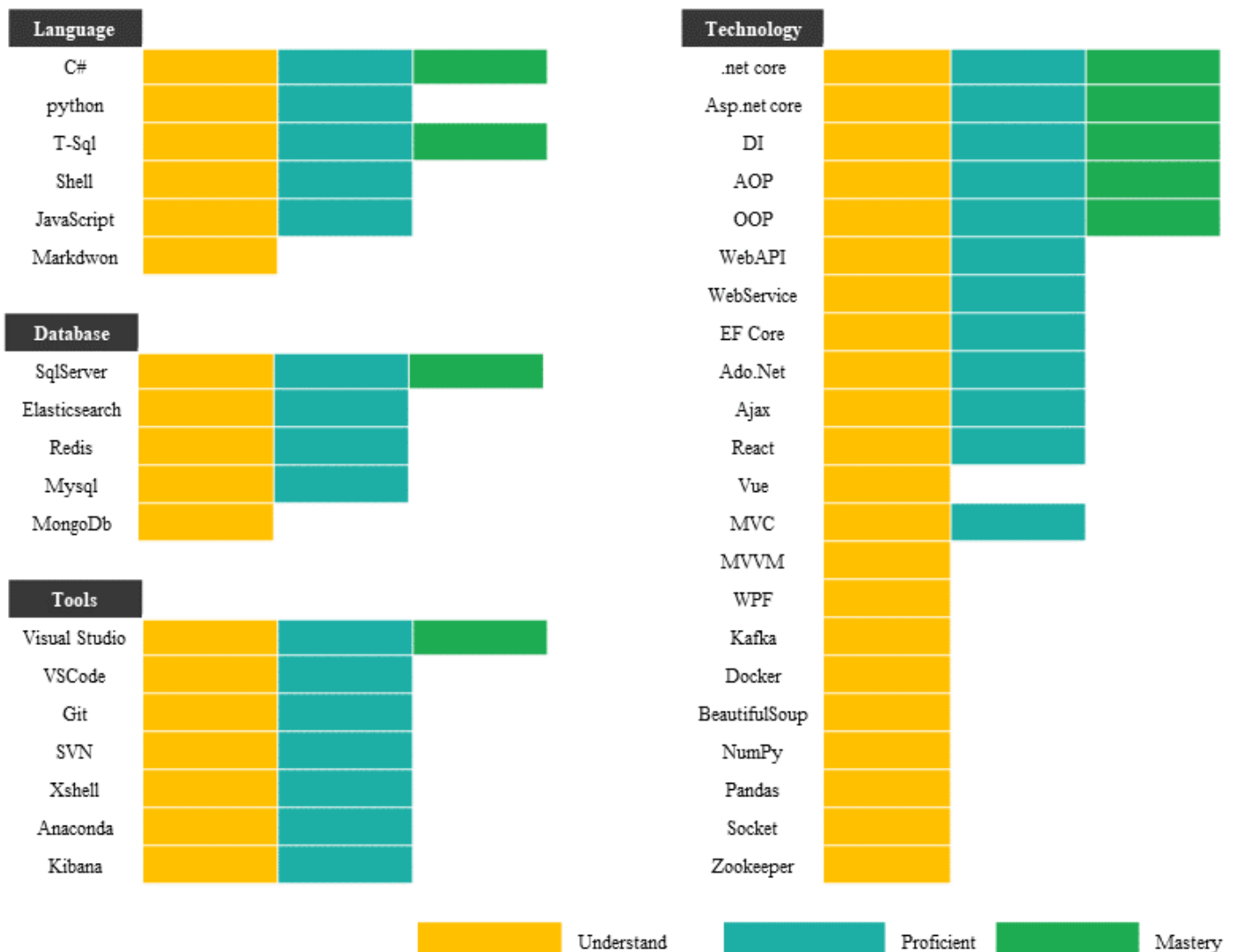
## Introduction

Hello, I'm David. I work as a software development engineer and currently reside in Chengdu. I graduated from Chengdu University of Information Technology in 2019 with a major in Software Engineering. Over the years, I've gained extensive experience in various projects ranging from B/S backend development to data processing and web scraping. My technical breadth encompasses backend technologies such as .NET and .NET Core, frontend technologies including React, JavaScript, and CSS, as well as expertise in Python for web scraping using libraries like Pandas. I'm proficient in working with databases like Elasticsearch, SQL Server, and Redis. Delving deeper into technical realms, I'm well-versed in mainstream protocols like HTTP and TCP, with experience in packet analysis, socket-based file transfer using C#, and multimedia parsing. My business acumen allows me to independently craft requirement specifications, interface documentation, and graphical representations such as use case diagrams and data flow diagrams. Moreover, I have a strong collaborative spirit, evident in my ability to work effectively within teams. My achievements include obtaining a CET6 certification, recognition as an outstanding employee. I also utilize AI, such as ChatGPT, to assist in completing tasks, enabling me to accomplish my work quickly and efficiently.

## Personal Information

- University: Chengdu University of Information Technology
- Major: Software Engineering
- Degree: Bachelor's
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# Skills



# Education

2015.09-2019.06

*Bachelor's degree in Software Engineering, Chengdu University of Information Technology*

- Courses: computer networks, C++,C#, Python, .Net, software engineering
- Achievements: received CET6 certificate and scholarship

# Work Experience

2019.10-2021.12

*Software development engineer at Chengdu Shensike Technology Co., Ltd.*

- Completed various crawler projects, including data cleaning and storage
- Developed Twitter, Facebook, and 189 email scrapers using Python and .NET/.NET Core
- Cooperated with third-party companies to transmit and parse data through sockets, JSON, XML, etc.
- Implemented project cross-platform applications (domestication of foreign-developed software) using .NET5

2021.12-2023.08

*.net Backend development engineer at Beisen Cloud*

- Develop microservices to integrate recruitment cloud business operations with different clients
- Cooperate with third-party companies to implement data encryption transmission and RESTful interactions
- Complete form organization and identity authority control
- Coordinate with large customers (Starbucks, Neusoft, etc.) for recruitment ERP business interconnection

2023.08-present

*.net development engineer at XLY technology*

- WPF Criminal Investigation Mobile Multi-Channel Extraction Software Interface Development.
- Criminal Investigation, Mobile Multi-Channel Extraction Software Development: Tailoring different extraction strategies for various mobile phones, including Android and Apple models, to achieve mobile data backup to PC. Further decrypting and parsing the backup data for visualization. Aiding investigators in case investigation and analysis.
- Bug fixing for Criminal Investigation Mobile Multi-Channel Extraction Software.

## Project Experience

2019.10-2021.12

*Public Security Technical Investigation Platform Project*

- Technical Investigation Platform of Public Security: wrote scrapers for Twitter, Facebook, 163 and other websites using Python, with technical tools including BeautifulSoup, SQLite, MQ message queue, and deepened understanding of HTTP, TCP protocols
- Data processing of a certain public security technical investigation platform: used C# to process various kinds of data such as JSON, XML, PCAP, DOCX, Excel, video and audio, and wrote script deployment programs that support Windows and Linux. Familiar with multithreaded development

process, reflection, Linq queries, serialization, and established socket or http connections with third-party platforms

- Data entry into SQL Server data (relational data) and ES (non-relational data) for various crawler data and host data.2021.06-2021.12
- Cross-platform database processing of a certain public security technical investigation platform: using .NET5 console program development, running environment supports Windows and China Standard Dragon system.

2021.12-2023.08

#### *Recruitment for Cloud Project Customization Development*

- Customized development of recruitment management cloud system and third-party docking
- AOP development, realizes triggers according to different functions, and solves problems from an aspect-oriented perspective
- SaaS software development uses PaaS platform services to

2023.08-present

#### *SPB9000*

- Design of C/S program architecture, utilizing a master-slave form to implement distributed software. The master is responsible for data display and issuing instructions, while the slave implements specific mobile data extraction logic. Communication between master and slave is conducted via TCP. Mobile extraction is carried out through methods like MTP and ADB, controlling the data on the mobile device.