

YUE (CHARLES) DONG

Mobile: +86 178 6662 8107 | Email: chardon_cs@proton.me / Y.Dong50@liverpool.ac.uk

Website: chardoncs.dev | ORCID: 0009-0002-1296-4256 | GitHub: chardoncs

EDUCATION

Xi'an Jiaotong-Liverpool University

M.Sc. Data Science

September 2023 – May 2025

Suzhou, Jiangsu, China

- GPA: 3.82 / 4 (WES iGPA)

Qingdao University

B.Eng. Software Engineering

September 2018 – June 2022

Qingdao, Shandong, China

- GPA: 3.67 / 4 (common), 3.83 / 5 (Qingdao, until 2019)
- Core modules: Linear Algebra & Probability Statistics (80+), Data Mining (90+), Data Structure (90+), Computer Networking (90+), Operating System (90+), Algorithm Analysis (80+), Software Engineering (90+)
- Society-sponsored Scholarship (Dec. 2020)
- Qingdao University Scholarships for 6 times (2019 – 2022)
- Active in the university's smart campus programs.

EXPERIENCE

Xi'an Jiaotong-Liverpool University

Teaching Assistant

September 2024 – December 2024

Suzhou, Jiangsu, China

- Lab courses for the database management course.

Xi'an Jiaotong-Liverpool University

Research Assistant

December 2023 – March 2024

Suzhou, Jiangsu, China

- Automotive social media data analysis using neural networks.

National Astronomical Observatories, Chinese Academy of Sciences

Research Assistant

August 2023

Chaoyang District, Beijing, China

- Concentrated development for the Cosviewer project.

ReSource Pro, LLC

Software Engineer

February 2023 – July 2023

Qingdao, Shandong, China

- American insurance BPM outsourcing company operating in China and India.
- Backend development of ASP.NET portal system using C# and Microsoft SQL Server.
- WYSIWYG visualization improvement for insurance policy discrepancy checking.

Mesnac Co., Ltd

Software Engineer Intern

October 2021 – December 2021

Qingdao, Shandong, China

- Web-based data visualization for SCADA (supervisory control and data acquisition).
- Frontend and backend development with Java, C#, JavaScript, and Oracle Database.
- Serial port API development in C#.

Qingdao University

Research Assistant

September 2020 – March 2021

Qingdao, Shandong, China

- Development participation of the cloud storage platform (QDU Drive).
- Software sustaining and support for the Intelligent Campus and Informationization Center of Qingdao University.

SKILLS

Languages

Mandarin (native), English (PTE 69; 2023), Japanese (JLPT N2; 2021)

Programming Languages

Python, C, C++, Rust, Go, JavaScript (ECMAScript 6+), TypeScript, Java, C#, Zig, etc.

Software & Tools

PostgreSQL, MySQL, Microsoft SQL Server, Next.js, React, Svelte, Bun, Node.js, Vim/Neovim, NumPy, Pandas, Matplotlib, Seaborn, PyTorch, Django, OpenCV, Jupyter, Anaconda, etc.

PROJECTS

Cosviewer

May 2023 – present

National Astronomical Observatories, Chinese Academy of Sciences (origin)

- A crowdsourcing astronomical data labeling and popular science platform.
- Led by Dr. Rui Li, et al.
- Architecture design and development.
- Using Next.js (frontend), Django (backend), Caddy (reverse proxy), and PostgreSQL (DBMS).

Computer-based Test System

August 2021 – October 2021

Qingdao Union Federation

- Led by Dr. Gengxin Sun of Qingdao University.
- Architecture design and development.
- Using Django (backend), Electron (client), Nginx (CDN server), and MySQL (DBMS).

QDU Drive

September 2020 – March 2021

Qingdao University

- Nextcloud-based cloud storage platform for students and faculty at Qingdao University.
- Development participation.

Lianchuan OBS client

March 2020 – May 2020

Hangzhou Lianchuan Biotechnologies Co., Ltd

- Cyberduck-based client side, using Amazon S3 protocol.
- Led by Dr. Yu Chen of Qingdao University.
- Development participation.

PUBLICATIONS

- [1] N. R. Napolitano, Y. Dong, and R. Li, “A catalog of compact blue strongly lensed sources in the footprint of ground-based surveys,” *Research Notes of the AAS*, vol. 8, no. 3, p. 77, Mar. 2024. DOI: 10.3847/2515-5172/ad333b. [Online]. Available: <https://dx.doi.org/10.3847/2515-5172/ad333b>.

- [2] W. Zhang, Y. Zhao, Y. Dong, Z. Li, Y. Ma, and D. Bi, "A study into quantitative structure-activity relationship of α -glucosidase inhibitors based on gene expression programming," Simplified Chinese, *Scientific and Technological Innovation*, vol. 2021, no. 20, p. 39, 2021, ISSN: 2096-4390.