

DIJKSTRA LIU

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EDUCATION

Washington University in St. Louis
Bachelor of Science in Computer Science
Capital Normal University High School
Graduated with High Honors

August 2022 to present
GPA 4.0/4.0
September 2019 to May 2022

TECHNICAL SKILLS

- Proficient in C/C++/Java programming language, demonstrating a deep understanding of algorithms and data structures. Be able to use algorithms of parallel programming.
- Familiarity with programming tools and technologies like Git, Visual Studio, and Linux.
- Strong analytical and problem-solving skills, with the ability to independently analyze and solve complex technical problems.
- Proficient in machine learning techniques and libraries such as TensorFlow or PyTorch, with experience in developing and deploying models for tasks such as classification, regression, or clustering. Familiarity with natural language processing techniques and library NLT.

COMPUTER SCIENCE EXPERIENCE

Music Arrangement Project

Developer

Sep 2021 to May 2022

- Developed music auto-arranging program using C++ programming language.
- Conducted rigorous testing and debugging to ensure high-quality performance and functionality.

Dijkstra's IT blog

Founder

May 2017 to present

- Write a personal IT blog and published articles on C++/Java, algorithms and data structures, which gained >300k views. <https://www.cnblogs.com/dijkstra2003>

Capital Normal University High School Teaching Program

Founder & Leader

June 2019 to May 2022

- Gave 150+ lectures on programming algorithms and data structures to High School students, 10 of whom placed high in the National Olympiad in Informatics finals. Recruit 20 members to expand the teaching program during the past three years.

Computer Science Elite Program

Researcher

Sep 2021 to May 2022

- Selected (10 of 600 students) to study at the Beijing Institute of Technology. Learned TensorFlow Machine Learning and NLP. Programmed an AI that can generate music.

HONORS AND AWARDS

- Distinction Rank (Top 5%) in 2021 AMC 12A 2021
- 1st Place in Gold Division (out of 723 participants) of the USACO Contest 2020
- Top 2% of 148,880 students, National Olympiad in Informatics in Province (NOIP)2019