

# DIJKSTRA LIU

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## EDUCATION

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**Washington University in St. Louis**

August 2022 to present

Bachelor of Science in Computer Science

**GPA 4.0/4.0**

**Capital Normal University High School**

September 2019 to May 2022

Graduated with High Honors

## TECHNICAL SKILLS

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- Strong foundation in data structures, algorithms, operating systems, software engineering, design patterns, and computer networks.
- 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, with experience developing models for sentiment analysis, text classification, or information retrieval tasks.
- 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.
- Proficient in web development technologies such as HTML, CSS, JavaScript, and frameworks such as React or Angular, with experience in developing front-end and back-end applications using tools such as Node.js and database MySQL.

## COMPUTER SCIENCE EXPERIENCE

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**Dijkstra's IT blog**

**Founder**

May 2017 to present

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

**Capital Normal University High School Computer Science Club**

**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.

**Washington University in St. Louis Computer Science Engineering Department**

**Teaching Assistant**

Jan 2023 to present

- Being TA at WashU CSE247 Data Structure and Algorithm. Holding weekly studios to help students have a better understanding of algorithms

## HONORS AND AWARDS

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- 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