

Dat Tran

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EDUCATION

Truman State University

Kirkville, MO

- B. S. in Computer Science
Expected graduation: May 2021
GPA: 4.0
- President's List
- School of Science and Mathematics's Honor Award

Society

- Association for Computing Machinery
- Mathematics Association of America
- Vietnamese Students Association

SKILLS

Languages

- Core: C++, Java
- Familiar: Python, C, Pascal, Javascript / HTML / CSS

Technologies

Git, Github, Bootstrap, NodeJS, jQuery, Windows, Linux, Eclipse, Visual Studio, Codeblocks

COURSEWORK

- Foundation of Computer Science I & II
- Calculus I & II
- Foundation of Mathematics
- Introduction to Programming in Java (MIT)
- Introduction to Website Development (Codecademy)
- Algorithms: Design and Analysis (Stanford)
- Mathematics for Computer Science (Stanford)

EXPERIENCE

Truman State University | Undergraduate Researcher

Kirkville, MO | Jan 2019 - August 2019

- Design SRNet, a tool to provide a common platform for students and researchers to interact, share information, and seek guidance freely. The tool automatically analyzes documents to extract main topics and matches them with suitable targets.
- The project involves natural language processing, software and website development, machine learning algorithms, and linear algebra.
- SRNet is one of ten projects funded by Truman State University for the highly selective summer research program.

Elite Prep Vietnam | Data Manager

Vietnam | May 2017 - May 2018

- Designed a program to schedule classes and maximize the number of students (but not exceeding the capacity) who can attend a lecture.
- Applied Max-flow theory and Ford-Fulkerson algorithm.

HYS High School | Competitive Programming Tutor

Vietnam | Feb 2017 - June 2018

- Taught algorithms and data structures for the team attending National Olympiad in Informatics and helped them troubleshoot programs.
- Designed an assignment checker to generate test cases and grade students' submission.

HONORS AND AWARDS

- Top 9 / 135: ACM International Collegiate Programming Contest - Mid-Central North America 2019
- Winner: Truman State University's Annual Coding Challenge
- Silver Medal: Vietnam National Olympiad in Informatics

PROJECTS

Wrong-test-detector

- A program (for C++) which can generate test cases for competitive-programming problems and compare the output with the results, helping users find the bugs in the program more easily.

SR-Net

- A tool to calculate the similarity of content of PDF documents (using Latent Semantic Indexing)
- Designed an algorithm to calculate the level of suitability in research interest between two people by their PDF documents.

Coding Party

- A server to host local coding competitions, collect competitors' submission, grade them, and present real-time results on Ranking tab, built with Uniserver and PHP.