Nikola Trajanovski

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ABOUT

Nikola Trajanovski, 23 years old, born and raised in Macedonia. Division 1 and semi-professional swimmer, full-time college student.

Multiple time Macedonian swim champion. Represented N. Macedonia at the European Swim Championships, Belgrade, Serbia 2024. Currently part of Division 1 Southern Illinois Swim Team.

EDUCATION

Southern Illinois University, Carbondale— *BA*

AUGUST 2024 - MAY 2026 (Currently enrolled)

–Major: Computer Science, with tracks in: Software Engineering, Cybersecurity and Machine Learning

–Part of SIU Division 1 Swim Team

–Part of SecurityDawgs Cybersecurity Club

Current GPA 3.0

Iowa Central Community College, Fort Dodge— *AA*

AUGUST 2021- MAY 2023

Part of ICCC Swim Team

PROJECTS

File Type Identifier - C, Ubuntu

➢ Developed a Linux command-line file type identification tool in C that analyzes file headers using magic numbers (hexadecimal signatures) to determine true file formats independently of file extensions.

To-Do List Application— HTML, JS, TailWind

Algorithmic

➢ Analyzed and compared Merge Sort, Quick Sort, and Heap Sort, evaluating time and space complexity across best, average, and worst cases to identify performance tradeoffs.

➢ Developed and compared an analysis of self-balancing binary search trees. The evaluation consisted of AVL trees, Red–Black trees, and Splay trees based on balancing strategies, rotation behavior, and operational performance. The project examined insertion, deletion, and lookup complexity, highlighting tradeoffs between strict balancing, amortized performance, and real-world efficiency under different access patterns.

WEB STATUS

[LinkedIn Profile]

[GitHub Profile]

TEAM SKILLS

Multitasking

Communication with customers

Fast learner

PROGRAMMING STACK

JS/TS, TailWind, NodeJS, React

PROGRAMMING LANGUAGES

C++, C, Python, SQL, Java Script

LANGUAGES SPOKEN

English, Macedonian, Serbian

PROFESSIONAL SKILLS/CERTIFICATIONS

Cybersecurity, AI &Software Engineering with to-be completed Bachelors of Arts degree from Southern Illinois University (2026)

Querying Data / Working with databases

AI Professional Skills