David Tanase

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OBJECTIVE

Highly driven computer science student seeking an internship where I would be able to contribute the knowledge that I have learned, develop software that has an impact on real-world problems, and expand my current skillset.

EDUCATION

Bachelor of Science: Computer Science May 2025
Texas A&M University, College Station TX
Bachelor of Science in Computer Science
Minor in Mathematics
GPA: 4.00

EXPERIENCE

Singapore Math Tutoring, Round Rock TX July 2020 – August 2020
Software Developer

- Created custom programs to generate randomized problem sheets, offering students a diverse set of math exercises.
- Included adjustable difficulty options and produced comprehensive answer key PDFs for students to check their work.

City of Round Rock PARD, Round Rock TX May 2023 – August 2023
Lifeguard

- Worked on a team with other lifeguards, gaining exceptional observational, communication, and decision-making skills to ensure the safety and well-being of all pool patrons.

PROJECTS

Plant Classification Application (Java)

- Guided a team of three students in the creation of a machine-learning-powered Plant Classification Application for TAMUHack, an annual hackathon at A&M.
- Gained proficiency in using API calls, processing JSON files, and querying an online database to retrieve information.

Algorithm Development (C++)

- Implemented core computer science algorithms including various forms of sorting, searching, and graph traversals.
- In-depth theoretical knowledge of advanced strategies including greedy, divide and conquer, dynamic programming, NP-completeness, approximation techniques, and randomization.
- Studied proofs of correctness and run-time complexity.

CSR Graph (Java)

- Designed and implemented a program capable of constructing a Compressed Sparse Row (CSR) graph data structure, providing superior memory efficiency compared to adjacency list and adjacency matrix representations.
- Incorporated Breadth-First Search, Depth-First Search, and Dijkstra's Single Source Shortest Path algorithms to determine the existence of connections between two airports and to determine which flights will help you reach a destination in the shortest distance.

SKILLS

Advanced Knowledge:	**C++, Java, Python, Data Structures, Algorithms, GitHub, Cryptography**
Intermediate Knowledge:	**C, HDL, SQL, Linux, JSON, Windows API, Excel, HTML, JavaScript, React**
Basic Knowledge:	**Android SDK, SVG, XML, IBM Quantum Composer, CSS, Bootstrap**
Languages:	Fluent in English and Romanian. Intermediate knowledge of French.

HONORS

Dean's List, Fall 2022
Craig and Galen Brown Engineering Honors
Co-founder and Webmaster of QuantA&M
Susan M Arseven '75 Academic Achievement Scholarship
Kathy & Brent Smolik Study Abroad Scholarship, Singapore