

Tomer Sedan

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OBJECTIVE

Dedicated undergrad seeking challenging Summer 2024 research and internship opportunities in Computer Science. Honors scholar with prior industry experience and a passion for problem solving.

EDUCATION

The Pennsylvania State University, GPA 4.0/4.0 **August 2021 - December 2024**

- Junior pursuing B.S. in Computer Science, Minors in Statistics and Computer Engineering.
- Schreyer Honors College scholar, starting work on honors thesis in GPU tensor core compilation.

Stanford University **June 2022 - August 2022**

Completed Design and Analysis of Algorithms (C++, Python) as part of on-campus summer program.

TECHNICAL SKILLS

C/C++, Python, SQL (Snowflake), Java, Algorithms & Data Structures, JavaScript, LLVM, SDL2, Git, Systems Programming, Competitive Prog. / Problem Solving, Linux, AWS Lambda, ROS, OpenCV.

EXPERIENCE

Sensor Fusion Engineer, Advanced Vehicle Team **August 2023 - Present**

- Helped develop a level 4 autonomous vehicle for the AutoDrive Challenge II. Member of the Perception department, concerned with object detection and reaction software using ROS.
- Stitched three camera and two lidar feeds to obtain depth and velocity data for objects with a 150 degree field of view, up 67% from the original 90 degree FOV.
- Continuing with the Advanced Vehicle Team in Spring 2024 as Project Management Lead.

Data Science Intern, Wurl **May 2022 - August 2022**

- Architected a reporting framework, giving over a hundred content partners data-driven insight into their advertising performance with Wurl across streamers, channels, and providers.
- Integrated Tableau visualizations with data queried from Snowflake using SQL. Pulled graphs into document templates using Python in AWS Lambda, in an entirely automated reporting process.

PROJECTS

Anx Compiler **January 2023 - August 2023**

- Built a compiled programming language in C++ using LLVM, with performance matching C.
- Implemented complex language features such as type-coercion and compiler intrinsics.
- Analyzed and optimized compiler performance metrics, speeding up short code compile times.

Rubato Python **October 2021 - February 2023**

- Lead creation of an SDL-based game development framework aimed towards young students.
- Designed fixed time-step rigid-body physics and a custom 2D graphics model with C++.

AWARDS

Dean's List, The Pennsylvania State University **December 2021 - Present**

President Sparks Awards, The Pennsylvania State University **February 2023**

Finalist, ICPC Regional Qualifiers **January 2023**