

# Tomer Sedan

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## OBJECTIVE

Dedicated undergraduate seeking challenging Summer 2024 internship opportunities in computer science. Partial to the fields of systems software and high performance computing; open to all offers.

## 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.
- Current coursework: Compiler Construction, Mech. System Design, Applied Regression Analysis.
- Relevant completed coursework: Systems Prog., Data Struct. & Algorithms, Operating Systems.

**Stanford University** **June 2022 - August 2022**

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

## TECHNICAL SKILLS

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

## EXPERIENCE

**Sensor Fusion Sub-department Lead, Advanced Vehicle Team** **August 2023 - Present**

- Developing a level 4 autonomous vehicle for the AutoDrive Challenge II. Member of the Perception department, concerned with writing object detection software in the Robot Operating System.
- Stitching multiple camera, lidar, and radar feeds to obtain depth and velocity data for objects.

**Lead Developer, 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.

**Co-Founder, 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++.

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

- Architected an automated reporting framework, giving over a hundred content partners data-driven insight into advertising performance with Wurl across streamers, channels, and providers.
- Integrated Tableau graphs with Snowflake SQL, pulled into report templates using AWS Lambda.

## AWARDS

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

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

**Finalist, ICPC Regional Qualifiers** **January 2023**

**President Walker Award, The Pennsylvania State University** **February 2022**

**21st Nationally, PicoCTF International Cybersecurity Competition** **March 2019**