Tomer Sedan

Palo Alto, CA 650 733 3326 tks5686@psu.edu github.com/tsedan linkedin.com/in/tsedan

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**

- Schreyer Honors College scholar pursuing B.S. in Computer Science and Minor in Statistics.
- Beginning work on an undergraduate honors thesis in the field of CUDA 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, Distributed Systems, Competitive Prog. / Problem Solving, Git, Linux, TCP/IP, ROS.

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**