**Tomer Sedan** 

Software Engineer Intern

Palo Alto, CA

Website: (650) 733 3326

tsedan.github.io

### **WORK EXPERIENCE**

## Software Engineer Intern, Snowflake

January 2025 - Present

tsedan@proton.me

- Improving customer trust in disaster recovery systems, reducing team-wide refresh incidents by 40%.
- Shipping new features for automatic dangling reference detection and resolution in replication.

## Research Assistant, Stanford

May 2024 - December 2024

- Combined H.264 with learned image compression models, using IDR-frame replacement to lower bitrates.
- Directly modified underlying bit representations of H.264 NAL units to support real-time applications.

# Project Management Lead, Advanced Vehicle Team

January 2024 - December 2024

**Email:** 

- Led a student-run organization to build an L4 self-driving vehicle for SAE's AutoDrive Challenge II.
- Managed over 50 students across 6 departments in competition planning and execution efforts.

## Software Engineer, Advanced Vehicle Team

**August 2023 - January 2024** 

- Fused LiDAR streams to detect railroad crossings, child pedestrians and to localize dynamic objects.
- Increased FOV by 67% and secured 2nd place autonomous route finish against top teams.

### Data Science Intern, Wurl

May 2022 - August 2022

- Developed an automated analytics reporting framework for 100+ content partners.
- Used Snowflake to pull queried data into Tableau, compiling and sending reports using AWS Lambda.

#### **EDUCATION**

# **Stanford University**

September 2025 - exp. April 2027

Master of Science in Computer Science

Incoming class of 2027

#### The Pennsylvania State University

August 2021 - December 2024

Bachelor of Science in Computer Science, minors in Statistics and Computer Eng.

Summa Cum Laude

### **TECHNICAL SKILLS**

**Languages** C++, Java, C, Python, SQL, Bash, Javascript, Verilog, a few flavors of assembly

**Software & Tools** Snowflake, AWS EC2 & Lambda, LLVM, OpenCV, ONNX Runtime, TensorFlow, SDL2,

ROS 2, Git, Linux, Cython, LaTeX

**Knowledge Areas** Database metadata and replication, multithreaded systems, optimizing compilers,

video compression, project management, autonomous vehicles, computer vision

### **PROJECTS & AWARDS**

## **Undergraduate Honors Thesis**, Schreyer Honors College

December 2023 - December 2024

- Title: Effective Utilization of Compile Time in Compute Graph Optimization for Object Detection.
- Year-long research project exploring the efficacy of optimization techniques for heterogenous hardware.
- Culminated in a 40 page thesis, proposing a subset of both theoretically and empirically potent methods.

### **Evan Pugh Scholar Award**, The Pennsylvania State University

February 2024

• Awarded to the top 0.5% of seniors in the university, as measured by cumulative GPA.

### **Optimizing Compiler**

**January 2023 - August 2023** 

- Built a bespoke compiled systems programming language in C++ using LLVM.
- Architected language features such as type coercion, intrinsics, and a just-in-time compilation mode.