

Maksim Sorin

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EDUCATION

Master of Science, Machine Learning & AI

San Jose State University, California

Jul 2024 - May 2027

- Relevant Coursework: Data Structures and Algorithms, Grade 99/100

Bachelor of Science, Electrical Engineering

University of Wisconsin, Milwaukee

Jul 2018 - Dec 2021

WORK EXPERIENCE

Software Engineer, LIVEWIRE EV/Harley-Davidson, Mountain View, CA

Jan 2022 - Oct 2024

- Developed optimized cooling loop control algorithms in C leveraging lookup tables, reducing EV charging times by 25% from 104 Minutes to 78 minutes.
- Developed rate of charge calculation and broadcasted onto vehicle instrument via CAN. A critical feature for customers and a feature used internally to verify and debug charging issues.
- Resolved and eliminated 50+ compiler warnings and hundreds of MISRA C coding standard violations from code base ensuring code safety and quality.
- Analyzed System on Chip throughput using iSystem to identify code bottlenecks causing overrun errors. Optimized performance by removing blocking calls, reducing system throughput by 40% (from 16ns to 9ns).
- Developed data binning feature which stores and monitors all charger activity for the life of the vehicle.
- Developed advanced fault detection algorithms improving bike reliability by catching catastrophic hardware failures.

PROJECT EXPERIENCE

Computer Vision Trigger Bot, Overwatch 2

Aug 2024 - Oct 2024

- Leveraged TensorRT to optimize model performance, achieving significant reductions in inference time and improving system efficiency. 14 millisecond latency achieved on average!
- Collected and analyzed 2500+ images to refine detection algorithms, improving trigger bot accuracy and adaptability in various in-game scenarios.
- Utilized YOLOv8 nano for real-time object detection.
- Conducted rigorous testing and refinement, ensuring reliability and effectiveness of the trigger bot in competitive gameplay scenarios.

Rec-Rent (First Place Hackathon Winning Startup), Hacker Dojo Hackathon

Aug 2024

- Lead a team of 5 engineers to create a full stack application for recreational equipment rentals within one weekend. Imagine the Airbnb of recreation equipment, ie boats, jetskis, etc
- Constructed backend routing of users and listings operating with Prisma and MongoDB
- Designed front end categories menu along with the ability to create and list items
- Tech Stack includes: Next.js, React, Tailwind CSS, Prisma, and MongoDB

SponsorSkip (Best B2C Hackathon Winner), Aiify.io Agentic AI World Hackathon

Sep 2024

- Lead a team of 5 engineers to build an award winning Chrome extension that can automatically skip "in video" Youtube sponsorships
- Leveraged YouTube API to pull transcript and timestamps from visited video
- Leveraged LLMs to analyze context of the transcript and identify start and end times of in video sponsorship and then skip them saving users hours of time!

Personal Portfolio, <https://www.max-sorin.com/>

- Personal website built with Django, Bootstrap, CSS, JS, and HTML to showcase my projects and achievements

SKILLS

- Python, C++, C, Typescript, Java, JavaScript, HTML, CSS, Swift/Objective C, SQL, MATLAB