Maksim Sorin

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Education

San Jose State University — August 2024 – May 2027
MS, Machine Learning & AI (GPA: 3.9) — *San Jose, California*

University of Wisconsin – Milwaukee — June 2018 – December 2021
BS, Electrical Engineering — *Milwaukee, Wisconsin*

Projects

Real-Time Computer Vision Detection System | *Python, CUDA, Multi-threading, YOLO, TensorRT*

- Engineered a real-time computer vision aimbot leveraging YOLOv8 object detection and TensorRT optimization, achieving stable 70+ FPS performance in live gameplay.
- Designed and implemented a low-latency perception pipeline integrating screen capture, model inference, multi-threading, and automated control inputs to ensure accurate and responsive target acquisition.
- Produced clean, documented, and modular codebase built from the ground up, demonstrating expertise in applied machine learning, GPU acceleration (CUDA 12.1), and computer vision system design.

Rec-Rent | *React, Next.js, Prisma, MongoDB, TypeScript, Tailwind CSS*

- Developed a full-stack rental property application using Next.js 14, TypeScript, and React, implementing modern web development practices and responsive design principles
- Built RESTful API endpoints and server actions for property listings, user authentication, and reservation management using Next.js App Router architecture
- Implemented user authentication system with NextAuth.js, including login/register functionality, user profiles, and secure session management
- Created an intuitive booking system with calendar integration, allowing users to search, view, and reserve rental properties with real-time availability
- First place hackathon winner (Hacker Dojo 2024)

SponsorSkip | *JavaScript, Natural Language Processing, Python*

- Developed a Chrome extension using JavaScript and Python that automatically detects and skips YouTube video sponsorships, demonstrating full-stack development capabilities across browser and backend systems
- Built a RESTful API using Flask and Python that processes video transcripts and integrates with AI services (Groq LLM) for intelligent content analysis and sentiment detection
- Implemented natural language processing pipelines that extract temporal data from unstructured transcript text using regex patterns and LLM responses, enabling automated identification of advertisement segments in video content
- Best B2C award at Agentic Aiify World hackathon

Digital Clutch Slipper | *Swift/Objective C, Arduino, Bluetooth, C++*

- Developed iOS application using Swift and SwiftUI, implementing Core Bluetooth framework for wireless device communication and serial data transmission
- Built embedded systems with Arduino using C++ programming, integrating sensors and solenoids for hardware control applications
- Created cross-platform solutions connecting iOS mobile apps to Arduino hardware via Bluetooth, enabling real-time data exchange and device control

Personal Portfolio | *Django, JavaScript HTML, CSS, Cloudflare, Heroku*

- Developed a front-end web application to display my personal projects and achievements
- Utilized JavaScript for smooth animations
- Configured and deployed web application to Heroku cloud platform, implementing production-ready settings including static/media file handling

Technical Skills

Languages: Python, C, C++, Java, Swift/Objective C, SQL, JavaScript/TypeScript, HTML/CSS, MATLAB
Frameworks: React, Next.js, Django, Node.js, TensorFlow, PyTorch, Scikit Learn, NumPy, Pandas
Developer Tools: Git, Cursor
Databases: PostgreSQL, MySQL, Redis, MongoDB, SupaBase
Other: Solved 600+ Leetcode Questions, can solve Rubik's cube