Djordje Ivanovic

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Education

Harvard University — Cambridge, MA
BA in Computer Science — May 2027
Relevant Coursework: Applied Linear Algebra (AM120), Abstraction and Design (CS51), Probability (Stat110), Data Science (CS1090), Data Structures and Algorithms (CS1200, CS1240), Machine Learning (CS1810), Electrical Engineering (ES50), Computer Systems (CS61), Computer Hardware (1410).

Experience

Zenlytic — New York City, NY
Software Engineer Intern — June 2025 – September 2025
Built a text-to-SQL evaluation system to compare models, prompt strategies, and multi-agent flows across curated datasets.
Shipped an interactive benchmarking dashboard enabling live run monitoring, result diffing, and per-query drilldowns of prompts, generated SQL, tool calls/outputs, and error traces.
Built an evaluation suite (semantic similarity, success@k, VES, F1, EM) measuring the performance of the text-to-SQL tool.
Built automated failure analytics that cluster queries by root cause schema linking, join mistakes, aggregation drift and surface prioritized cases to motivate targeted prompt/tool fixes.
Built finetuning infrastructure that turns failure clusters into datasets, runs supervised finetunes, and automatically re-evaluates with per-skill gains.

Coinis — Podgorica, Montenegro
Software Engineering Intern — May 2024 – August 2024
Optimized advertising algorithms and backend pipelines to improve scalability, response time, and overall ROI.
Built REST APIs for real-time analytics and integrated new services to enhance reliability and data flow efficiency.
Refactored core ad-delivery logic and caching mechanisms, cutting query latency and improving campaign stability.
Designed automated health checks and fallback systems ensuring uninterrupted ad delivery and revenue continuity.
Collaborated with marketing engineers to launch new audience-targeting features and optimize user engagement tools.

Harvard Visual Computing Group — Cambridge, MA
Research Assistant — January 2024 – June 2024
Benchmarked Neo4j and Memgraph on petavoxel-scale connectomics, reducing motif query latency from hours to minutes.
Rewrote Cypher queries and optimized indexes to accelerate circuit motif search and improve traversal efficiency.
Designed and tuned graph models, ETL pipelines, and caching to support scalable subgraph matching and visualization.

Leadership and Activities

Harvard Robotics Club Rover Team — Cambridge, MA
Software Team Lead and Treasurer — September 2024 - Present
Led an 8-person software team developing a full ROS 2 autonomy stack for the University Rover Challenge, integrating perception, localization, and control into a unified system.
Designed and implemented GNSS-based localization and real-time path planning with multi-sensor fusion from LiDAR, ZED 2i stereo camera, IMU, and GPS to enable SLAM, obstacle avoidance, and terrain-aware navigation.
Built modular ROS 2 packages for mapping, mission control, and autonomous traversal, ensuring robust performance in dynamic, unstructured environments.
Oversaw project operations as Treasurer, managing budget, procurement, and logistics while coordinating weekly engineering sprints to align software, hardware, and systems teams.

Technical Skills & Projects

Programming: C, C++, TypeScript, Python, Java, OCaml, SQL, SpringBoot, Angular, NextJS, Django, FastAPI
LANTERN - Developed a covert vehicle tracking system using TMPS signal receivers, LoRa nodes, and Python-based signal processing to identify, monitor and track cars across urban environments. **Received 1st prize at Code Metal's Hackathon.**
AEGIS – Built an AI clinical assistant that transcribes doctor-patient conversations in real time and generates live diagnostic summaries, care plans, and patient education tools using Whisper and Claude.