

Tomislav Lovrenčić

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Experience

- **Constructor** **Remote**
Platform Engineer *January 2025–Present*
 - Involved in core platform engineering efforts with a strong focus on infrastructure-as-code, cloud automation, and internal tooling to improve scalability, reliability, and developer productivity.
 - Led the design and rollout of a unified, fault-tolerant caching layer decoupled from core business services, designed to serve as a critical data preservation and fallback mechanism during infrastructure or application-wide failures.
 - Successfully delivered an internal event-driven architecture using AWS EventBridge, enabling low-friction communication between microservices and simplifying onboarding of new producers and consumers.
- **Superbet** **Zagreb**
Software Development Engineer *July 2022–January 2025*
 - Currently designing and implementing microservices across various domains as a backend developer at Superbet.
 - Participated in the design and implementation of a new betting architecture, incorporating generic SDK plugins for efficient parallel bet handling, boosting bet placement speed by 300% and simplifying service integration.
 - Directly identified and resolved two critical exploits in our core systems, thus saving the company significant financial resources.
- **Autodesk** **Zagreb**
Software Development Engineer *March 2020–July 2022*
 - Contributed to the development of the world's leading PLM software, enhancing its scalability and distribution capabilities.
 - Implemented an efficient caching layer using Redis, significantly enhancing the PLM software's performance. This strategic addition reduced data retrieval times by 40%, markedly improving user experience and system efficiency, particularly in high-demand scenarios.
 - Achieved a 75% reduction in the loading time of the Autodesk home page by implementing parallel processing and optimizing tree node algorithms.

Education

- Academic Qualifications.....
- **Faculty of Electrical Engineering and Computing** **Zagreb**
Master's Degree in Computer Science
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Bachelor's Degree in Computer Science

- Notable Projects.....
- **SystemDesign Practice Platform - Full Stack Web Development** Developed a comprehensive website for SystemDesign interview practice, integrating front-end and back-end development with ChatGPT API, offering a unique, interactive learning experience for users preparing for technical interviews.
 - **NFT T-Shirt Marketplace** - Developed a web-based platform where users could buy limited-edition T-shirts, each linked to a unique NFT on the Polygon blockchain. Implemented smart contracts for ownership, rarity attributes, and secure minting. Handled end-to-end development from backend to smart contract integration.

Technical and Personal Skills

- **Programming Languages:** Proficient in Java, Golang, Python, SQL.
- **Cloud and Infrastructure:** Extensive experience with AWS (EC2, S3, Lambda, IAM, RDS, DynamoDB, EventBridge, etc.), CloudFormation, Terraform, Kubernetes.
- **DevOps and IaC:** Strong skills in writing and managing YAML configurations, CI/CD pipelines, infrastructure-as-code (Terraform, CloudFormation), and container orchestration.
- **Monitoring Observability:** Hands-on experience with Prometheus, Grafana, CloudWatch, and ELK stack (Elasticsearch, Logstash, Kibana).
- **Speaking Languages:** Croatian (native), English (Full professional proficiency)