Daniele Di Cesare

+39 39 2531 4284 | Verona, IT | dicesaredaniele7@gmail.com | github.com/DiCesareDaniele | linkedin.com/in/ddc-dicesare

EDUCATION

University of Amsterdam   Amsterdam, NL
Master of Science in Computer Science   *Sept 2025 — Present*

- Currently pursuing advanced studies in computer systems, networks, and software engineering. The program focuses on the design, analysis, and implementation of complex and distributed computing systems, emphasizing performance, security, sustainability, and scalability.

University of Trento   Trento, IT
Bachelor of Science in Computer Science   *Sept 2022 — Jul 2025*

- Cumulative GPA 3.82 (28.66/30), graduated with 110 cum laude.
- Relevant Courses: Data Structures and Algorithms, Advanced Programming, Operating Systems, Programming I and II, Functional Programming, Software Engineering, Calculus I and II, Probability and Statistics.

WORK EXPERIENCE

Automation and Operations Optimization   Sept 2021 — Present
ONO Lean Logistics   *Verona, IT*

- Designed and implemented optimization algorithms for automated warehouses, significantly improving operational efficiency.
- Reduced product withdrawal times by up to 65% through strategic reordering based on usage patterns.
- Applied clustering techniques to group products according to user-defined metrics, enhancing accessibility and workflow.
- Developed a virtual warehouse simulator to model and analyze system performance under various scenarios.
- Implemented a 3D bin packing algorithm, achieving over 90% average space utilization and minimizing wasted container space.

Sports Mobile App Development   Apr 2023 — Jan 2024
YMedia   *Trento, IT*

- Developed a full-stack fantasy football mobile app for Android and iOS platforms.
- Designed and implemented a RESTful API server using Rust and PostgreSQL, deployed via Docker on AWS EC2.
- Built a cross-platform Flutter mobile app, featuring live statistics, notifications, and team rankings, published on Google Play and the App Store.
- Built an admin dashboard to manage events, matches, and mailing lists efficiently.

PROJECTS

Restaurant Management App   github.com/USushi-G18

- Developed a RESTful API in Go to handle client requests and manage data persistence in a PostgreSQL database.
- Built a Svelte-based frontend enabling administrators to manage menus and employees to view real-time customer orders.
- Deployed the application on DigitalOcean using Docker, with TLS encryption for secure communication.

EXTRACURRICULAR ACTIVITIES

Capture The Flag Competitions   Feb 2022 — Present

- Competed in CTF challenges, including the CyberChallenge, tackling real-world security problems.
- Developed practical expertise in cryptography, web security, network security, and software security through hands-on problem-solving.
- Further enhanced these skills through advanced coursework in Software Security and Cryptography during my Master's program.

SKILLS

- **Programming Languages**: Go, Rust, C/C++, Python, JavaScript, Java, C#, Bash, Dart.
- **Backend**: Redis, PostgreSQL, MySQL, SQLite, MongoDB, Express, Axum.
- **Frontend**: React, Svelte, Vue, SASS, Tailwind, Flutter, HTML/CSS.
- **DevOps**: Nginx, Docker, Kubernetes, AWS, Terraform, Kafka.
- **Languages**: Italian - Native, English - C1 (IELTS 7.0).