



ABOUT ME

MSc Computing | Data Engineering & Analytics | Business Intelligence

Early-career engineer with experience across cloud data workflows, analytics, stakeholder-facing reporting and public-sector digital transformation.

WORK EXPERIENCE

01/03/2026 - 31/07/2026 - Luxembourg, Luxembourg

Schuman Trainee - European Parliament, DG ITEC

- Led an internal **skills-management initiative** from stakeholder requirements and scope definition through development, documentation and deployment.
- Designed and developed an **Excel-based** skills management system. Built **Power Query** data workflows and reporting pipelines supporting **Power BI** dashboards for workforce planning and decision-making.
- Produced **technical documentation** and collaborated with internal stakeholders to define target knowledge levels, and support implementation and adoption

01/08/2022 - 01/08/2023 - Rijeka, Croatia

Data Engineer - Elixirr Digital (formerly iOLAP)

National Resilience

- Developed data integrations between **Benchling** and **Quilt**, alongside historical **recovery workflows** to backfill scientific records missing from electronic lab notebooks.
- Implemented **inventory-tracking workflows** with barcode integration, translating laboratory requirements into practical digital solutions.

iRobot

- Investigated **SQL** and data-pipeline issues affecting analytics, collaborating across teams to **identify root causes** and document resolutions.
- Supported **Tableau** reporting by troubleshooting dashboard issues and improving reporting reliability.

SELECTED PROJECT

Interactive Engineering Portfolio, dbijelac.com

- Designed and built three interactive experiences explaining **ethical interface design**, **pipeline failure & recovery**, and **workforce capability planning**.
- Used **Next.js**, **React**, **TypeScript** and **D3/SVG** visualisations to make technical and analytical concepts accessible, with optional deeper explanations.

EDUCATION

Master of Science in Computing, September 2025

Faculty of Engineering, University of Rijeka

Thesis: "The Impact of Dark Patterns in E-Commerce on User Behaviour and Decision-Making"

- Developed two e-commerce web applications and conducted an **empirical HCI study** using **user interaction metrics**, **usability testing** and **behavioural analysis** to investigate the impact of dark patterns on decision-making.

Bachelor of Science in Computing, September 2023

Faculty of Engineering, University of Rijeka

Thesis: "Web System for Storing and Visualizing Biometric Features of Handwritten Signatures from Touchscreens"

- Built a web application for **biometric-data storage** and **visualisation**, including time-series and 3D trajectory analysis.

SKILLS

- **Programming & Web:** Python | SQL | JavaScript | TypeScript | React | Next.js
 - **Data & BI:** Power BI | Power Query | Tableau | Excel | Pandas | NumPy
 - **Data & Engineering:** ETL/ELT | Data Integration | AWS | Data Modelling
 - **Development Workflow:** Git/GitHub | GitHub Actions | Playwright
 - **Business & Delivery:** Requirements gathering | Stakeholder Collaboration | Technical Documentation
-

LANGUAGE SKILLS

Mother Tongue: Croatian

English

LISTENING: C2 **READING:** C2 **WRITING:** C2
SPOKEN PRODUCTION: C2
SPOKEN INTERACTION: C1

German

LISTENING: A2 **READING:** A2 **WRITING:** A2
SPOKEN PRODUCTION: A2
SPOKEN INTERACTION: A2

VOLUNTEERING

Luxembourg, Luxembourg

Volunteer, Europe Day 2026 - European Parliament

Guided international visitors through the European Parliament and presented the role of EU institutions in Luxembourg, explaining their functions and contribution to European governance. Supported visitor coordination and public engagement activities during Europe Day events.