

Antony Jimson Poruthukkaran

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Summary

Bachelor of Science in Computer Systems Engineering Riga Technical University (RTU), Riga, Latvia | 2019–2024, Transferred to ISMA University for thesis completion | 2024–2025 (Graduated: 2025), with proficiency in software development using Python, JavaScript, and SQL, complemented by experience in project management and database systems. Balanced rigorous studies at RTU and ISMA with hands-on consulting experience since 2023. Adept at collaborating on web development projects and leveraging customer-focused skills from sales consultancy. Passionate about advancing expertise in AI, cloud computing, and futuristic technologies to build innovative software solutions.

Technical Skills

- Programming & Development:** C++, Python, Java, Django, Flask, React, HTML, CSS, JavaScript, Assembly language
- Machine Learning & AI:** Natural Language Processing (NLP), Sentiment Analysis, Transformer Models (DistilBERT, Hugging Face), Model Optimization (ONNX), AI Ethics & Fairness, Human-Centered AI Design, Bias Mitigation, Trustworthy & Transparent AI Systems
- Data Handling & Analysis:** Pandas, Matplotlib, Scikit-learn, Twarc (Twitter API), Sentiment140 Dataset, Data Preprocessing (UTF-8, multilingual text), Data Visualization
- Cloud & Infrastructure:** AWS Cloud Basics, Linux/Windows Administration, Git/GitHub, Apache Kafka (exposure)
- Databases:** MySQL, PostgreSQL, SQL Server, Database Design & Management
- Project Management & Tools:** Jira, Trello, Microsoft Project, Agile/Scrum Methodologies
- Other Tools & Knowledge:** Microsoft Office Suite, Google Workspace, CRM Systems (Salesforce, HubSpot), Customer Engagement & Technical Documentation

Key Projects

- Bachelor-Thesis-ISMA-2025:** "Decoding Sentiments Online: Transformer-Based Analysis of X Content"
 - Developed a multilingual DistilBERT sentiment analysis tool for X (Twitter) posts, achieving 82% accuracy on 500 samples (100 X posts via Twarc API + 400 from Sentiment140 dataset), outperforming VADER (71.5%).
 - Optimized for accessibility: Handled informal/multilingual text (e.g., Japanese via UTF-8), reduced latency to 1 second/post with ONNX quantization, and enabled operation on standard 8GB RAM laptops using Python (transformers, pandas, matplotlib, Scikit-learn).
 - Addressed API limits and biases; proposed future enhancements like Apache Kafka for real-time streaming, Flask/React UI, and multimodal analysis—delivering 302% ROI for small businesses vs. commercial tools (\$2,450 vs. \$6,000–\$12,000 annually).
 - Contributed to AI ethics by incorporating bias mitigation and trustworthy systems, supporting market demand for affordable brand monitoring.

2. **Web Scraping Analysis Project – RTU (2023):** Conducted a comprehensive study on web scraping methodologies for unstructured data.
 - Explored Python-based scraping tools including Selenium, BeautifulSoup, Scrapy, and Requests
 - Designed and executed test code to extract data from poorly structured web sources using a self-hosted static server and Python’s built-in web server
 - Compared performance and accuracy of scraping methods against existing literature and benchmarks
 - Delivered a detailed report analyzing tool efficiency, data quality, and real-time processing capabilities
 - Supervised by Valdis Saulespurens at Riga Technical University
3. **Database Management Projects – RTU (2020–2021):** University Database Design
 - Designed and implemented a relational database for a university system using PowerDesigner and MS Access.
 - Created conceptual, logical, and physical data models with validation rules and constraints.
 - Generated SQL scripts and built the database in MS Access with input masks and sample data

Professional Experience

Junior Consultant | [Dyninno](#)

Riga, Latvia | **May 2023 – Oct 2025**

- Managed 300+ travel bookings monthly via GDS, optimizing data integration to reduce errors by 25%
- Developed troubleshooting and problem-resolution skills in a fast-paced customer environment.
- Collaborated with cross-functional teams to streamline workflows and enhance customer satisfaction
- Achieved consistent monthly targets and contributed to a 15% increase in team conversion rates
- Analyzed sales data to identify trends and optimize team strategies

Education

Bachelor of Science in Computer Systems Engineering | RTU & ISMA

Riga, Latvia | **2019 – 2025**

- Gained solid foundation in software development, algorithms, and computer systems
- Completed projects in programming, databases, and web technologies
- 2019–2024 at RTU, 2024–2025 at ISMA

Certifications

- Create Your First Web App with Python and Flask — Coursera
- Human Factors in AI — Coursera
- AWS Cloud Basics — Coursera
- Java Programming Basics — Coursera
- Remote work — Dynatech Mindtickle