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# DAN RUSSULEAC

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## PROFESSIONAL SUMMARY

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Results-driven Computer Science graduate and Microsoft-certified **Azure Fundamentals (AZ-900)** professional who has already sharpened enterprise **database performance** in a **SAP**, Center-of-Excellence internship. I pair **deep Python knowledge** - core data structures, comprehensions, generator pipelines, and rigorous pytest coverage - with advanced **SQL tuning** across PostgreSQL, MySQL, Azure SQL and Oracle, routinely slashing multi-terabyte query runtimes by up to **300 %**. Comfortable translating CPU, memory and I/O telemetry into clear, client-ready insights, I've authored weekly **optimisation reports**, hosted client briefings and supported multiple production **go-lives**. I thrive at the intersection of code quality, data-driven decision-making and consultative communication - ready to convert complex performance challenges into measurable wins for your consulting or software engineering team.

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## EDUCATION

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**Bachelor of Science:** Computer Science, 09/2021 - 09/2025

**Technological University Dublin** - Dublin - Distiction(1:1)

- Completed: Course AZ-900T00-A: Microsoft Azure Fundamental

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## WORK HISTORY

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**Business Process Analyst Intern**, 01/2024 - 09/2025

**SAP** - Dublin, Leinster

- Analysed **multi-terabyte datasets** in MySQL and Azure SQL DB, profiling execution plans and system-level metrics to pinpoint performance bottlenecks.
- Boosted query speeds by 200–300 %** on average by designing new indexes, re-using existing ones, and refactoring SQL—cutting hours-long runs to minutes for business-critical actions.
- Created and presented weekly **Technical Performance Optimisation (TPO) reports**, translating CPU load, RAM usage, processor count and I/O trends into clear, actionable recommendations for both engineers and clients.
- Honed soft skills in **client communication, teamwork and agile problem-solving**, while deepening technical expertise in SQL tuning, capacity planning and large-scale data analytics.
- Collaborated with cross-functional COE engineers and interns to create “**SAP-Chat**,” a Snapchat-style internal social app(in React and Node.js) that fostered workplace connectivity and showcased rapid prototyping skills.

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## SKILLS

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- Python (proficient):** mastery of core data types (lists, dicts, sets, tuples), list/dict comprehensions, generators; robust unit & integration testing with pytest, object-oriented design, algorithms.
- Advanced SQL & Relational DBs:** MySQL, PostgreSQL (**pgAdmin**), Azure SQL, Oracle; query-plan tuning, index design, ETL for multi-TB workloads
- Cloud & DevOps:** Microsoft Azure (AZ-900), Git version control, CI/CD fundamentals
- Data Insights & Reporting:** Excel (pivot tables, Power Query) and ad-hoc SQL analytics for client-ready findings
- Complementary Languages:** Java, C, JavaScript + HTML for rapid full-stack prototypes
- Systems & Design:** Linux CLI & scripting, UML & ER diagramming, strong stakeholder communication

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## MINDCARE - AN AI BASED MENTAL HEALTH APPLICATION

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- AI-first feature set:** GPT-powered chatbot offers empathetic conversation, performs sleep-pattern analysis, and generates daily wellness tasks tailored to each user's profil - showcasing prompt-engineering, function-calling design and multi-step reasoning.
- Modern React front-end:** SPA built with React 18, hooks, **dayjs** for date logic and **react-chartjs-2/graphjs** for live mood graphs, demonstrating component architecture, state management and data-visualisation skills.
- Hardened Node/Express API:** layered controller-service-DAO pattern, secure **JWT** sessions and password hashing with **bcrypt**, reflecting production-grade backend engineering practices.
- Relational data craftsmanship:** PostgreSQL schema with indexed mood/sleep tables, CTE-driven analytics views and parameterised queries—evidence of advanced SQL modelling and performance tuning.
- Local-first DevOps:** Docker-Compose spins up front-end, back-end, pgAdmin and test containers in one command, highlighting environment-parity thinking and container fluency.

[github.com/DanRussuleac/MindCare\\_Test](https://github.com/DanRussuleac/MindCare_Test)

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## LANGUAGES

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**English**

Fluent