# ARNAUD DUCLAIRE TIAM

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## TECHNICAL SUMMARY

With over 8 years of experience as an Oracle and PostgreSQL DBA, I have knowledge and hands-on experience in database design, migration, upgrades, database security, backup and recovery, Data obfuscation, Automation, replication, monitoring and tuning.

I am proficient in an assortment of technologies including Oracle 12c and PostgreSQL (9.6 – 15.4).

I am an agile team player with excellent communication skills and problem solver who can successfully manage multiple priorities while performing well under pressure.

I am a proven leader with motivational management style, a solid reputation for building and retaining highly motivated teams and development of innovative solutions.

I succeed in high-pressure environments while meeting business needs and project expectations. Motivated to stay informed of latest industry innovations to provide users with most up-to-date solutions.

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## SKILLS

- Upgrades & Patches,
- Backup and Recovery,
- AWS Services (EC2, RDS, AURORA),
- Logical and Streaming Replication,
- Performance Tuning,
- Database Security,
- Partitioning and Indexing,
- Automation using Ansible, Bash Scripting,
- Data modeling & schema design,
- Team player,
- Managing projects using Agile methodology,
- Good communication skills.

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## TOOLS

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| Databases: | Oracle, PostgreSQL (On permis, EC2, RDS PostgreSQL), Aurora |
| Database Tools: | Pg_dump, Pg_basebackup, pg_logical, Ansible, datadog, Terraform, pgbadger, pg_partman, repmgr, pgAdmin4, dbeaver, pgBouncer, barman, Patroni, etcd, HAproxy, Log miner, AWS SCT, DMS, pg_cron, CloudWatch, OEM, RMAN, Ora2pg, PL/PgSQL, Jira Agile, Monday.com, slack, AWS CLI |
| Operating Systems: | MS Windows, LINUX, UNIX. |

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## EXPERIENCE

**AMAZON WEB SERVICES -SEATTLE**
AUGUST 2022 -PRESENT
RDS Aurora PostgreSQL DBE -L5

Take feedback and learn from solving customer issues and translate them into concrete design proposals.
Act as the voice of customers in designing and executing various engineering projects.
Worked with a developer to design and build new features and improve existing ones.
Engaged in customer support.

Few examples:

- Configuring PostgreSQL VERSIONS 9.6 to 15.4.

- Troubleshoot and fix auto vacuums that were not properly set up or stuck, preventing transaction

  ID wraparound failure.

- Identify and fix table, index, and TOAST table corruption.

- Provide recommendations for various performance issues, including query optimization.

- Identify and fix mistakes performed during heterogenous migration.

- Provide recommendations to minimize downtime during minor and major version upgrades.

- Perform simulations to identify the root cause of the customer's issue.

**UNITED AIRLINES** - CHICAGO, IL
SEPTEMBRE 2018 – JYLY 2022

PostgreSQL DBA
- Installing/configuring PostgreSQL VERSIONS 9.6 to 14.6.

- Upgrading database versions using **pg_dump, pg_upgrade & logical replication (pglogical, native logical replication)**.
- Performing basic tasks such as objects creation; creating roles, granting privileges, creating tables.
- Assisted in developing and implementing best practices for Disaster Recovery and Backups.
- Performing High Availability with **patroni, etcd and HAproxy**.
- Experience with schema design, data modeling and query optimization to ensure high application performance.
- Implementing the use of indexes, and primary & foreign key constraints as required.
- Experience with AWS, deploying and managing PostgreSQL (on RDS & on EC2 instance) and Amazon Aurora.
- **Monitoring PostgreSQL** databases using Datadog, AWS CloudWatch, Enhanced Monitoring.
- Proficient in **automating repeatable tasks** via automation scripting using tools such as Bash, and **Ansible**.
- Experience with infrastructure as code such as **Terraform**.
- Defining and implementing maintenance plan for the database systems like **vacuum, analyze, index rebuild**…
- **Configured PgBouncer** for connection pooling.
- Experienced of **tuning PostgreSQL server settings & Troubleshooting performance issues**.
- Expert in working with PL/PgSQL including Procedures, Functions, Cursors and Triggers.
- Experience working in environment following agile practices using tool like Jira Agile.
- Involved in developing processes for optimizing database security.
- Migrated data from on-premises Oracle databases to RDS for PostgreSQL and Aurora PostgreSQL compatible mode.
- Constantly learn new things and share them with my team members.


**NEWSEUM** – WASHINGTON DC
SEPTEMBER 2015 – AUGUST 2018

PostgreSQL & Oracle DBA
- Upgrading database versions using pg_dump, pg_upgrade & logical replication.
- Performing basic tasks such as objects creation; creating roles, granting privileges, creating tables.
- Assisted in developing and implementing best practices for Disaster Recovery and Backups.
- Designed and implement high availability for disaster recovery, like logical and streaming replication across multiple regions.
- Implementing the use of indexes, and primary & foreign key constraints as required.

- Providing production support based on a ticketing system.
- Monitoring PostgreSQL databases using Zabbix.
- Performing maintenance activities like vacuum, vacuum full, analyze and cluster.
- Configured PgBouncer for connection pooling.
- Configured pgBadger for generating statistic reports.
- Experience working in environment following agile practices using tool like Jira Agile.
- Involving in developing, support and maintenance for the **ETL (Extract, Transform and Load) processes using Hevo**.
- Involved in developing processes for optimizing database security.
- Experience in performing data obfuscation using pg_anonymizer.
- Constantly learn new things and share them with my team members.
- Participated in 24 X 7 Production & Development database support and administration.
- Migrated data from on-premises Oracle databases to RDS for PostgreSQL and Aurora PostgreSQL compatible mode.
- Documented the Standard Processes for peers to follow.
- Performed full & incremental backup (cumulative and differential) using RMAN and implemented recovery strategies.
- Refreshed/cloned databases using RMAN utility.
- Worked with Data pump to take the logical backups of databases and Experienced in performing Point in time recovery using RMAN.

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## EDUCATION/CERTIFICATION

- September 2021- **AWS Certified Database -Specialty Certificate**.
- August 2021- Oracle Database 12c Administrator Certified Professional.
- December 2012– *Doctorate degree in pharmacy*- Université Des Montagnes (Bangangté-Cameroon)- Evaluated by WES to be equivalent to master's degree in pharmaceutical sciences.

## LANGUAGES

Fluently read, write, and speak French.
English as a second language.

## HOBBY

Literature: French literature, novels, American revolution, African independences.
Sport: Soccer.
Social: Volunteer as a greeter at Eagle Brook Church of Anoka Minnesota since June 2022.