Maxence Ahlouche

Computer Scientist

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https://maahl.net/cv

Professional experience

2020 – now	**Senior Software Engineer**, *Xeneta*, Oslo, Norway. Backend developer in the Data Science team using Python (Flask), PostgreSQL, and some AWS (Lambdas and Batch mostly) with Terraform
2016 – 2020	**Ph.D. in Computer Science (unfinished)**, *University of Grenoble-Alpes*, Grenoble, France. Research on using query feedback in DBMSs for adjusting future cardinality estimates of intermediary results of SQL queries, using PostgreSQL
2015	**Research in data mining**, *National Institute of Informatics*, Tokyo, Japan. 6-months research internship in artificial intelligence, deep learning, data mining Analysis of the behaviour of drivers to automatically generate driving rules to be followed by autonomous vehicles
Summer 2014	**Google Summer of Code**, *PostgreSQL*, from home. Implementation of a clustering algorithm (k-medoids) in a machine-learning library (MADlib) compatible with PostgreSQL, GreenPlum and HAWQ
Summer 2013	**Summer job in construction**, *DPD Concept*, Bergerac, France. House building (inner walls, electricity, flooring)
Summer 2012	**Development of an Access application**, *Internship at Airbus*, Toulouse, France. Development of an indicators generating application in a Production quality service (non IT)

Skills

Programming languages	**Python:** proficient. Used at Xeneta, during my studies, for personal projects Notable libs: Flask, Pandas, Seaborn, SQLAlchemy, Pytest **SQL:** proficient with PostgreSQL's dialect. Used a lot during my PhD and at Xeneta **C:** intermediate. Used mostly while working on PostgreSQL's source code during my PhD **Rust:** beginner, but very interested. Go-to language for personal projects Notable libs: Axum, Yew **Others:** Bash commonly used; HTML, CSS, PHP occasionally used; C++ and Java regularly used during my studies.
Infrastructure and Operations	**PostgreSQL:** good mastery. Used extensively during my PhD, organized upgrade from 9.6 to 13 at Xeneta **Docker:** used on my personal servers, orchestrated with docker-compose; used a lot at Xeneta to run our services in ECS, Batch or Lambda **Terraform:** used to orchestrate the infra at Xeneta **AWS:** used a couple of services, mainly Lambda and Batch **CI/CD:** Gitlab CI used for linting, testing and deploying my personal projects, set up some Github actions at Xeneta
Others	**Excel:** Basic usage, occasionally used with Power Query for data cleaning

Languages

French	**Mother tongue**	
English	**Fluent**	*Written and spoken fluently, maximum score achieved at the TOEIC test*
Spanish	**Intermediate**	*Studied for 5 years, good level at the 'A' levels*
Norwegian	**beginner**	*Currently working in Oslo, Norway*

Studies

2012 – 2015	**INP-ENSEEIHT - Master's degree in Computer Science**, *Toulouse, France*. Engineering degree (French diploma equivalent to a Master's Degree) in Computer Science. One semester spent in Tomsk, Siberian Russia. Final project realised in a research lab in Tokyo, Japan
2010 – 2012	**IT HND**, *University of Technology of Bordeaux*, Bordeaux, France. Mainly practical IT courses.