CHRISTOPHE PARENT
DATA ENGINEER

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Executive summary

Data engineer with 6 years of experience designing backend systems and data pipelines. Areas of expertise include Python, SQL, and Web scraping. Took command of several projects and produced deliverables to data scientists and business owners, in collaboration with infrastructure teams. Planning to further grow as a data engineer by expanding scope of mastered technologies and by leading bigger teams.

Skills

Programming languages	Python (Scrapy, Airflow, Pandas), SQL (PostgreSQL, MySQL), Node.js, Rust
Cloud services	AWS (EC2, S3, DynamoDB, Cognito, Lambda), GCP (GCE, GCS)
Tools	Linux, Git, Docker
Natural languages	English (full professional proficiency), French (native speaker)

Professional experience

Data engineer Red Violet—Seattle, WA   2018 – 2023
- Built custom web scraping and ETL stack from the ground up to enrich growing in-house database.
- Set up monthly data ingestion from 60+ public sources into data sets of 12M+ entries.
- Started experimental project targeting one social media platform, and harvested 9M+ profiles.
- Increased performance of cosine similarity algorithm by x100 in space of hundreds of millions of data points.
- Led new development of batch-oriented, Airflow-orchestrated application and launched it into production.
- Overhauled its architecture including migration of key components to AWS ecosystem.

Data engineer Openvalue—Paris, France   2016 – 2017
- Redesigned and enhanced web scraping project in support of catalogue and pricing efforts in retail industry.
- Set up daily/weekly data ingestion from 10+ competitors' sources into datasets of up to 400k entries.
- Set up continuous monitoring of 2,000+ deals over high volume sales periods to fuel reactive pricing strategy.
- Devised custom solution that targets JSON-formatted data at XHR endpoints, streamlining overall scheme.
- Leveraged various techniques (OCR, proxy, Tor, etc.) to defeat anti-scraping strategies.

Project manager Addstones—Paris, France   2013 – 2015
- Led team of 6 developers/analysts and reported achievements to business manager.
- Enforced quality standards and spread good practices across organization.
- Oversaw deployment of RESTful web services.
- Processed migration of clients to European banking format SEPA on Electronic Data Interchange system.

Technical support engineer ADNEOM—Paris, France   2011 – 2013
- Fixed production incidents on cash management application, improving user experience for critical clients.
- Queried payment status on Oracle Database and unblocked SWIFT wire transfers up to $100MM.
- Coordinated teams worldwide to successfully deploy new versions of application.
- Conducted interviews to help staff new team of 4 support analysts in Mumbai, India.

Business analyst Sopra Group—Paris, France   2007 – 2011
- Analyzed business requirements and maintained project documentation.
- Developed Bash scripts and SQL queries to improve monitoring tools.
- Wrote user acceptance testing scenarios with HP Quality Center.
- Trained future end users on new versions of application.

Personal projects

OOX Exploration of game development in Rust   https://forge.thatspaceandtime.org/ooxie/oox

Education

Master of Science in Computer science Université Paris-Sud—France (now Université Paris-Saclay)   2007