Engineer Data

Python

15 achievements

Connect the parts of your system

The work collected under “Python” shows one part of a working system. We can help connect that part to the rest of your operation. Numbers arriving where they are needed, on a schedule, without anyone copying a spreadsheet at the end of the month.

Explore our services Get in touch →

Find a comparable challenge

Follow an example that resembles your situation. Its review describes the decisions behind the result, beyond the technology label. One infrastructure plan for 14 departments — 14 research departments on one infrastructure plan

One infrastructure plan for 14 departments Get in touch →

30 days of electricity data in 180 ms

Engineered hourly electricity-consumption aggregation variants in Python, SQL and Bash + Jq, with the Python benchmark processing one 30-day JSONL dataset in 180ms.

Designed and ran 6 ETL/ELT pipelines

Designed, implemented, and administered 6 ETL/ELT pipelines, utilizing Google BigQuery, MSSQL, PostgreSQL, Shell scripting, PL/pgSQL, and Transact-SQL, integrating data for efficient Python API processing.

Delivered 8 Power BI projects with manuals

Delivered 8 Power BI projects with comprehensive manuals, integrating Microsoft Power BI tools with NodeJS API and Python FastAPI for effective data analytics and visualization.

Automated GIS SaaS deployment with GitHub Actions

Automated GIS SaaS application deployment, data processing, and reporting system using GitHub Actions CI/CD, Python, Bash, and SQL.

Automated 100 critical data backups using Barman

Automated 100 critical data backups using Barman, Google Cloud, Bash, and Python, ensuring data integrity across databases.

Led 30+ GIS projects from build to support

Led the development, deployment, and support of over 30 GIS projects, demonstrating expertise in PostgreSQL, Bash, Python, JavaScript, GDAL, ArcGIS, PostGIS, and Mapbox technologies.

Saved 4,000 hours with GitHub and GitLab CI/CD

Streamlined data analysis and software development processes, saving 4,000 hours by introducing GitHub, GitLab, Bash, and Python CI/CD practices.

Developed a Data Analytics reporting system

Developed a Data Analytics reporting system, increasing quarterly software revenue by 400% through Python-based PDF reports.

Automated data processing in Python and PL/pgSQL

Automated data processing tasks using Shell scripting, PL/pgSQL, Python, and Transact-SQL, increasing productivity and efficiency.

Generated 495 pages from a SQLite export

Generated 495 achievement pages across three languages from a read-only SQLite export, with the page address authored as data so that correcting a sentence no longer moved the page and broke the link.

Built a database-driven CV generator

Built a database-driven CV, references, portfolio and cover-letter generator in Python — 41 modules, 10,580 lines — rendering six output formats from one 23-table SQLite source assembled by a 19-step idempotent pipeline.

Wrote tests for the checkers themselves

Wrote tests for the checkers themselves after establishing that a checker fed only clean input will one day report clean because it read nothing — planting a misspelling to confirm the spell-check finds it, and taking an id range from the database rather than from a number in the test.

Moved every string into a content tree

Moved every user-facing string out of Python into a content tree of 874 files across three languages, after finding dead translations nobody could see were dead and a check silently grading a third of the achievements.

Built a cross-language figure check

Built a cross-language content check that fails when a translation drops a figure the English states, and when a language uses notation it does not use — finding two Danish descriptions missing a metric and sixteen Ukrainian spans quoting in the English style.

Measured 13 addresses with no tracking

Measured thirteen addresses from the web server's own access log alone — no cookie, no tracker and no third-party service — masking the client network as each line is written, and folding the result into a permanent archive of 21 daily counts and 20 monthly facets.

Focus the engineering effort

Bring a representative dataset, the questions it must answer and the current bottleneck. We can agree how to measure quality, throughput and recovery.

See what it costs Get in touch →

Put the subject in your context

Tell us how “Python” appears in your own system. We can help choose the relevant service and define the work around it.

Explore our services

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Contact card

Carefully Crafted With Love by D.

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