

Petar Peychev

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Skills

Languages: Python, SQL, Scala, Bash, HTML, CSS, JavaScript

Frameworks: PySpark, Flask, Django, React

Libraries: pytest, mypy, NumPy, pandas, Matplotlib, Shapely, behave

Infrastructure: AWS, GCP, Terraform, Docker, Kubernetes

Tools: Git, Gitlab CI, Jenkins, Opsgenie, Jira

Experience

Data Engineer (Associate), The Very Group – Liverpool, Merseyside Sept 2022 – Present

- Developed a low-code framework for ETL workloads, now used across 50+ data pipelines.
- Built data pipelines for an in-house insurance system, Salesforce CRM and CallMiner speech analytics, ensuring compliance, improving customer experience and business insights.
- Improved software quality with static type checking for Python, code complexity metrics, and test coverage in CI/CD pipelines and pre-commit hooks.
- Created CLI tools, providing an easy way for engineers to interact with the REST APIs of Mage and Opsgenie.
- Streamlined a way for analysts to build secondary data products via DBT and Starburst federated queries orchestrated by Mage.
- Contributed coding standards and recommended tools for Python, an introduction to functional programming in Scala, and onboarding documentation.

Product Engineer (Software), Jaguar Land Rover – Gaydon, Warwickshire Sept 2020 – Sept 2021

- Created a web application with Flask for visualising time-series data and video, simplifying diagnosis of autonomous system failures.
- Built a testing framework with Behave and Jira Xray to verify autonomous driving systems meet KPIs, reducing production defects and preventing accidents on the road.
- Prototyped the usage of Shapely to do spatial analysis with GPS data to detect vehicle defects.
- Upgraded data validation by moving from ad-hoc SQL scripts to Great Expectations, enhancing data quality.

Education

BSc Computer Science (First Class Honours), Nottingham Trent University 2018 - 2022

- Awarded department award for excellent overall performance.
- Managed the Developers' Society, organising hackathons, workshops and meetups.

Projects

Personalised Chess Coach - Data collection service querying public APIs to populate a BigQuery data warehouse and a web application to visualise collected data by highlighting common mistakes and offering better alternatives. Built with Python, Django, Flask, Materialize CSS and deployed on GCP.

Personal Portfolio and Blog - Front-end web application built with TypeScript, React, Next.js, and Tailwind CSS, deployed on Vercel.

Test Signer Service - REST API service for signing test answers in Go using Chi, PostgreSQL, and Docker. Authentication using JSON Web Tokens (JWT).