

SONJA BACINSKI

London | +44 7393 459 392 | sonja.bacinski@live.com | [Github](#) | [LinkedIn](#)

PROFILE

Early-career data engineer with over a year of hands-on experience building Python ETL pipelines for financial data at a fintech. Currently completing a BSc in Computing, with only the thesis defence remaining - a six-month research project on graph databases for financial lending data, conducted in collaboration with my employer. Combines this technical work with a financial management foundation, bringing both technical capability and financial domain fluency to integration and client onboarding roles. Particularly strong at organising messy multi-source financial data into clean, validated, structured systems.

EXPERIENCE

Exaloan AG | Jan 2025 – Jun 2026 (1 yr 6 months) | Remote

Junior Software Developer (Thesis-Linked Contract) | Jan 2026 – Jun 2026, London | Remote

- Designed and built a modular Python ETL pipeline prototype (4,000+ lines, installable package with CLI) that transforms loan portfolio data from a NoSQL document store and Excel sources into a property graph in ArangoDB, ~58,000 nodes and ~110,000 edges across 60+ collections.
- Engineered deterministic, idempotent ingestion using hash-based keys, so repeated runs update rather than duplicate records; validated with integrity checks achieving zero orphan edges across all edge collections.
- Built schema-drift detection, required-field validation, and PII redaction into the pipeline to handle evolving multi-source financial data safely.
- Modelled the full investment lifecycle, legal entity, allocation, bid, investment, receivable, borrower plus timestamped event streams (scheduled payments, transactions, status events) supporting point-in-time and audit-style reconstruction.
- Evaluated graph vs. document representations across comparable query sets, demonstrating where typed-edge traversal reduces query complexity for relationship- and process-centric analysis.

Junior Software Developer (Internship) | Jan 2025 – Dec 2025, London | Remote

- Built the full application logic for an automated email-ingestion pipeline (in internal production use at Exaloan), processing investment-account attachments end to end: extracting PDF/Excel attachments, classifying them by source, and routing them to SharePoint via the Microsoft Graph API. Worked within an existing AWS Lambda / CDK deployment setup.
- Engineered transaction-processing logic using pandas and pdfplumber, including regex-based classification of cash movements (investment, withdrawal, deposit, fee, commission) and custom refund-detection with account-flipping to correct misclassified records.
- Automated monthly cash-balance reconciliation, computing opening balances, fees, interest, and closing balances, persisting results to ArangoDB.
- Implemented SharePoint integration via the Microsoft Graph API (MSAL OAuth2), including content-based file renaming and routing logic.
- Separately, built React interfaces to visualise processed financial data, integrated with backend services via REST APIs and JSON.
- Worked closely with a Germany-based team while remote from London, building strong stakeholder relationships across time zones to resolve data quality issues.

Globant – Junior Salesforce Consultant | Sep 2023 – Mar 2024, London

- Contributed to Salesforce implementations with Apex, Lightning Web Components (LWC), and Visualforce, for enterprise clients.

- Supported data management, declarative automation (Flows), and requirements documentation.

Zolibri – Co-founder (Part-time) | Jan 2022 – Aug 2023, London

- Co-founded and developed an ethical cosmetics e-commerce platform using WordPress and Shopify integration.
- Conducted market and financial analysis to guide business strategy and growth.

Aperian Global – Finance Intern | Feb 2018 – Jul 2018, Kolding, Denmark

- Assisted the CFO with full-cycle accounts receivable processes, managing invoicing, collections, and customer files.
- Prepared journal entries and performed bank and fixed asset reconciliations.

PROJECTS

FIX Allocation Transformer ([GitHub](#)) | 2026 (In Progress)

- Python tool for parsing and transforming FIX 4.4 AllocationInstruction messages to CSV; implements robust message parsing, party resolution, validation, and gap analysis for post-trade workflows.
- Active development using feature branches, verified commits, and planned GitHub Actions CI/CD integration.

Salesforce-Learning Platform ([GitHub](#)) | Jun 2024

- Developed a Salesforce-based learning platform using Apex and Lightning Web Components (LWC), with a dynamic quiz system and performance tracking.

Currency Exchange Rate Updater ([GitHub](#)) | Feb 2024

- Designed a Salesforce Apex class to update currency exchange rates using external API data, proposing a unique and efficient approach adopted by peers.

EDUCATION

Birkbeck, University of London - BSc Computing | Jun 2026

- Thesis: Transforming Loan-Related Financial Data from NoSQL Collections into a Graph Model Using ArangoDB (in collaboration with Exaloan). Attended the Connected Data Conference to deepen understanding of graph data modelling in financial systems.

Birkbeck, University of London - Foundation Degree in Computing | Jun 2024

- Focused on web development, databases, and object-oriented programming (Java, Python, PHP, SQL, HTML, CSS, JS).

International Business Academy, Kolding - Foundation Degree in Financial Management | Jun 2018

- Coursework: Financial Methodology, Advanced Statistics, Financial Market and Advising, and Financial Control.

SKILLS

- **Programming:** Python, SQL, JavaScript, Java
- **Protocols & Integration:** REST APIs, JSON, XML, Microsoft Graph API (OAuth2)
- **Backend & Data Systems:** ETL pipelines, data modelling, schema design, data validation, PostgreSQL, NoSQL & graph (ArangoDB), Pandas
- **Cloud & Tools:** AWS (Lambda, S3), Linux/Unix basics, Git, Bitbucket
- **Frontend:** React
- **Certificates:** Connected Data Masterclass (2025), Salesforce Administrator & Developer Track (2022)

LANGUAGES

- English – Business Fluent | Bosnian/Croatian/Serbian – Native