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Summary

Senior Software Engineer and Tech Lead with 8+ years of experience building scalable software, data platforms, and machine learning solutions. Mostly works in Python on backend functionality, but is happy to tackle any challenge with the appropriate tool. Experienced in leading cross-functional teams, improving developer workflows and delivering measurable business impact.

Passionate about:

- Organising code in a clean, extensible way. Thoughtful designs empower teams to build faster and more reliably.
- Building the appropriate tools to "automate the boring stuff". Teams should focus on valuable work.
- Solving complex problems with simple, maintainable solutions. It's easier to scale and maintain elegant solutions.

Experience

Lyst Senior Software Engineer & Tech Lead May 2023 – Present

- Broke large initiatives into smaller, more manageable streams of work across iOS, frontend, backend and CRM disciplines as tech lead of the Membership Experience team. Overhauled AGILE practises to improve the delivery of the team and boost team morale. Sprint completion increased from 60% to 85% and team satisfaction increased from 65% to 78%.
- Debugged and fixed a long-standing infrastructure issue while in the Data Platform team. This addressed the loss of 30% of frontend analytics data. Implemented observability tooling to ensure similar issues would be identified more swiftly in the future.
- While on the Data Platform team, I doubled company-wide data validity by enhancing developer tools for data contracts and increasing the visibility of data quality metrics.
- Migrated a legacy containerisation service to Kubernetes when I was in the Checkout Integrations team to align with the wider organisation.

Sparta Commodities Senior Data Engineer Jan 2023 – May 2023

- Analysed recurring pain points in the code base and authored a roadmap with 30 actionable items for the CTO to implement (prioritised by effort and impact).
- Created a report on database technologies for streaming high-frequency trading data from Kafka.

Lyst Senior Software Engineer Mar 2022 – Jan 2023

- Built developer tooling to identify and visualize inefficiencies and vulnerabilities in the python code base. After reporting this to the C-Suite we re-evaluated our practices saving £20,000pcm.
- Prototyped a more efficient mechanism for retrieving product update data. The success of the prototype led to a new team being created to scale the service and launch it in production.
- Implemented key parts of the company's flagship multi-retailer shopping cart using the adaptor pattern, enabling seamless purchases across a variety of payment providers with varying logical requirements.
- Developed a web-hook architecture to allow retailers to push information at the most appropriate time boosting the timeliness of data and reducing redundancy of data retrieval.

Deloitte Data Science Consultant & Engineering Manager 2017 - 2022

- Trained machine learning models to analyse the compliance of telephone sales calls that were reviewed and signed off by the FCA for production use.
- Developed AWS CDK (Python) infrastructure that allowed customers to ship their own customized instances of the company's flagship application on their own AWS accounts (using CodePipeline).
- Built a cross-domain model evaluation framework that increased client trust in model performance and was ultimately adopted as a core product feature due to strong customer demand.
- Designed and ran Python and AWS bootcamps, training dozens of consultants and developers, many of whom transitioned into software engineering roles.

Nuffield Health Finance Assistant 2016 – 2017

- Supported the Physiotherapy Finance Team with billing, streamlining workflows as I went along.

Opes Financial Services Alexander Hall Mortgage Adviser 2014 - 2016

- CeMAP-qualified mortgage adviser delivering tailored financial advice to a wide variety of clients.

Thames Christian College Teaching Assistant 2013 – 2014

- Led GCSE mathematics revision sessions and classroom support.

British Petroleum Market Risk Oil Internship Summer 2012

- Worked on data reconciliation during a platform migration and quickly learned core concepts in futures and derivatives trading.

Education & Qualifications

- Exeter University BSc Mathematics First Class Honours
- Sutton Grammar School A-Levels AAA GCSE 9×A* | 2×A
- Udacity Machine Learning Nanodegree 6-month online programme
- AWS Solutions Architect Associate (expired) Certified in architecting scalable, secure cloud systems

Technologies

Programming Languages

Python	HTML and CSS	Bash	JavaScript	TypeScript
Rust				

Web & API Frameworks

Django	Django Ninja	FastAPI	Flask	Django REST Framework
React				

Data Storage

SQLAlchemy/Alembic	Django/Django-migrations	Postgres	SQLite	Redis
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Machine Learning & Data Analysis

NumPy	Pandas	Polars	Scikit-Learn	Keras
NLTK	Matplotlib			

DevOps, Cloud & Infrastructure

AWS	AWS SQS	AWS SNS	AWS ELB	AWS ECS
AWS Kinesis	AWS Lambda	Apache Kafka	Terraform	Docker
Kubernetes	Linux	Git	GitHub	GitHub Actions

Testing, Code Quality & Tooling

Pytest	Tox	Coverage	Pydantic	Poetry
Mypy	Ruff	UV		