Pablo Arteaga

Email: please refer to www.pabloarteaga.com
Address and phone number redacted, available on request.

Motivated Software Engineering Team Lead with experience building data platforms and contributing to Open-Source projects, excited to build solutions that cater for a diverse range of stakeholders.

WORK EXPERIENCE

June 2022 -

Bloomberg L.P. – Software Engineer – Lakehouse Platform

- Leveraged Open-Source data technologies such as *Trino*, *Apache Iceberg*, *Parquet* and S3-like APIs to build pluggable and scalable data platforms.
- Worked on data authorisation and auditability, leveraging *Open Policy Agent* (*OPA*) – building a comprehensive and scalable self-service solution.
- Contributed a new *OPA* plugin to *Trino* upstream.
- Led the Bloomberg team during the creation of *aws-proxy* (co-developed with the *Trino* community), building an Open-Source pluggable proxy that can authorise S3-like APIs (and other SigV4 endpoints) using *OPA* and other systems.
- Liaised with a diverse range of stakeholders – internal and external – to ensure we are catering for their needs and building solutions that can be integrated with in-house systems.
- **Became Team Lead in October 2024**, after being de-facto TL since June 2023

August 2018 – June 2022

Bloomberg L.P. – Software Engineer – Commodities

- Implemented large performance improvements by rearchitecting data delivery platforms to leverage caching and better orchestration, profiling *Python* code to understand bottlenecks, and upgrading infrastructure.
- Planned and executed complex database maintenance involving TBs of data, understanding *PostgreSQL* internals, and resulting in no downtime.
- Collaborated with stakeholders across the company to build new tooling, upgrade infrastructure and promote best practices.

June to Sept. 2017

Bloomberg L.P. – Software Engineering Intern – Commodities

- Worked as part of the European Power & Gas team, focusing on weather data, power plant outages and power usage forecasting.
- Built a new event-driven ingestion pipeline, reducing latency and toil.
- Collaborated with other teams to improve existing tools used across the company, acquiring very useful skills in team management.
- Researched database scalability solutions and their applications for the team, given their extensive usage of PostgreSQL.

July to Sept. 2016	**EPSRC internship at the University of Glasgow and UBDC** • Researched efficient methods to analyse heterogeneous data collections. • Created a storage-agnostic abstraction layer - learnt & leveraged tools such as *Hibernate ORM*, *Solr* and *Lucene*. • Attended the *Lucene4IR* conference (University of Strathclyde)
May to June 2016	**TGX (The Gaming Experience) – Gaming start-up** • Built integrations with several gaming platforms using *Python*, *Django* and *Java*. • Leveraged CI/CD to uphold industry best practices.
June to July 2015, 2016 and 2018	**Volunteer at TLP (Tenerife Lan Party) – Systems and Networks** • Helped deploy and maintain custom-built software for event ticketing and access control, including interfacing with various types of RFID hardware. • Worked alongside a large team, helping prioritise and focus on key tasks in a time constrained and high-pressure environment.

EDUCATION AND QUALIFICATIONS

2014-2018	**University of Glasgow, Software Engineering BSc** **Graduated with Honours of the First Class** **Additional Information** • Part of the winning team in the University of Glasgow **Cyber Defence Exercise** (CDX) sponsored by JP Morgan. Developed a secure web application for this event. • Selected to participate in Code for Good, organised by JP Morgan, to help charities develop useful software tools and platforms to improve their efficiency during a weekend hackathon. Helped Maggie's develop a platform to log patients' data, being a very rewarding experience. • Awarded the BCS prize to the dissertation with the best evaluation. • Awarded with the John Aitchison prize for the student with the best performance in first year Statistics.
2015	**Cloud-based virtualization with VMware ESX and vSphere** Course covering the basics on how to set up, manage and maintain a VMware ESX based virtualization system

2009-2014	**Colegio Hispano Inglés, Santa Cruz de Tenerife, Spain**

Título de Bachillerato: Awarded with "Matrícula de honor" (avg. of 10/10)

Additional Information
- Selected to participate and finalist in the *Becas Europa* programme for excellence in high school
- Selected to take part of the *Premios Don Bosco* in Zaragoza for technological research and innovation. Developed a wirelessly controlled robot controlled with a Kinect sensor
- Winner of the *Premio DISA* for academic excellence in 2014
- Winner of the *Premio CSIC Canarias* (Superior Scientific Research Council) for the Science popularization project built for my School
- Developed a website and an Android App currently in use by the School to implement the *Flipped Classroom* methodology. Setup another website used to share content between students.
- Actively maintain and ensure the security of the hosting VPS

SKILLS

Coding: Java, Python, Golang, .NET, JavaScript, TypeScript, C++

Infrastructure: Ansible, Docker, Linux, Kubernetes.

Data platforms: Trino, SQL, PostgreSQL (& MVCC), Snowflake, S3-like/SigV4 APIs

Data governance: Open Policy Agent, Apache Ranger, data lineage.

LANGUAGES

- English: C1 – Cambridge Advanced
- Spanish: Native

REFERENCES AVAILABLE ON REQUEST