Data Engineer - DUALARITY

Location: Palo Alto or Ireland

About the Team

At DUALARITY, we are developing advanced wearable devices that enhance hearing and sight using AI-driven sensory augmentation. Our team brings together cutting-edge AI, machine learning, and software engineering to develop technology that improves the lives of individuals with sensory impairments. We are focused on creating data infrastructure and AI systems that provide real-time, personalized experiences for users, improving how they interact with their environment.

Join our team and help us build scalable, secure, and efficient data systems that form the foundation for the next generation of AI-powered wearable technology.

About the Role

DUALARITY is seeking a **Data Engineer** to design and implement scalable data pipelines that support our machine learning models and real-time AI applications. You will work closely with data scientists, AI/ML engineers, and product teams to build data architectures that ensure the seamless flow of information between devices, AI models, and cloud infrastructure.

As a **Data Engineer**, you will be responsible for creating the data backbone that enables DUALARITY's sensory augmentation technologies to deliver real-time, high-performance user experiences. This role will focus on handling large volumes of sensor data, ensuring secure data storage, and enabling the continuous training and deployment of AI/ML models.

Responsibilities

- **Design, build, and maintain scalable data pipelines** that support real-time AI/ML applications, ensuring high-quality data flow from sensory devices to cloud or edge infrastructure.
- Develop and manage **data architectures** that handle large, complex datasets, including sensor data, user interactions, and AI model outputs.
- **Collaborate with data scientists and AI engineers** to ensure that data pipelines support the training, validation, and deployment of machine learning models.

- Implement **data processing frameworks** for real-time and batch processing, ensuring low-latency, efficient performance for AI-powered wearables.
- Optimize **data storage solutions** for scalability and performance, ensuring the integrity and security of user data.
- **Monitor and maintain data systems**, identifying opportunities for improvement in performance, scalability, and data quality.
- **Ensure compliance with data privacy and security regulations**, working closely with product and legal teams to safeguard user information.

You will thrive in this role if you:

- Have a **Bachelor's or Master's degree in Computer Science, Data Engineering, or a related field**, with strong experience in designing and implementing scalable data systems.
- Are proficient in **Python, SQL, Java**, or other relevant programming languages, and have experience with **ETL processes**.
- Have experience working with **cloud platforms** such as AWS, GCP, or Azure, and are familiar with cloud-based data storage solutions (e.g., S3, BigQuery).
- Are experienced in **building data pipelines** for real-time or batch data processing, with an emphasis on **low-latency performance**.
- Have worked with **big data technologies** such as Apache Spark, Kafka, or Hadoop to manage large datasets efficiently.
- Are passionate about enabling AI/ML solutions through efficient data infrastructure, particularly for **real-time applications** that enhance sensory experiences.
- **Bonus**: Experience working with **edge computing** or **sensor data** from IoT devices, particularly in the context of AI and machine learning systems.

About DUALARITY

DUALARITY is at the forefront of developing intelligent, AI-powered wearable devices that enhance human senses. By combining advanced AI with intuitive design, we aim to empower individuals with hearing impairments and sensory challenges to live safer, more connected lives.

Our commitment is to human-first AI: developing technology that adapts to the user's needs, ensuring that DUALARITY's solutions improve not just function, but the quality of life. By focusing on real-time auditory and visual processing, we provide individuals with tools to interact with their world in a way that is personalized, secure, and seamless.

At DUALARITY, diversity of perspectives and backgrounds is key to building solutions that serve the full spectrum of human experiences. We are committed to fostering an inclusive environment where creativity, innovation, and bold ideas flourish.

Compensation

Competitive salary + Equity opportunities.