



## Full stack developer

IDUN is a swiss-based ETH-Spinoff founded in November 2017. At IDUN Technologies Ltd. our vision is to usher in the next evolution in IoT, evolving it into the Internet of Humans: in which our bodies drive, actively and passively, our experience with our wearable devices, and we have actionable data about ourselves. We have a holistic understanding of all aspects in the pipeline between the body and IoT experience. This pipeline can be broken down into three primary aspects: (1) *understanding the body for actionable insights*, (2) *innovative biosensor development*; and (3) *integration, data collection and analysis*. For more details please visit [www.iduntechnologies.ch](http://www.iduntechnologies.ch).

### The Opportunity

IDUN Technologies is seeking a dynamically minded Full Stack Developer with a wide skill set to accelerate the development of data infrastructures and algorithms for the analysis and modelling of biosignals with a focus on EEG processing and neurotech product development. Do you want to build the world you want for yourself and society instead of trying to fit into the one that has been already created? This is opportunity we can offer at the intersection between humanity and connected device evolution. We are seeking someone who can:

- Support us from front- to back-end development.
- Establish a scalable data pipeline and database.
- Help us design and develop the IDUN API.
- Understand signal processing of timeseries data and feature extraction using conventional analytical and ML methods.
- Build short and long-term strategies for data warehouses and model training environments.
- Explore deep learning methods for feature extraction from complex time series data streams that are relevant to neurological events.

### Key Responsibilities (include but are not limited to)

- Design and implement data pipeline and architecture.
- Interface with third party applications, OEM devices and peripherals.
- Deploy models onto hardware prototypes for specific demo cases.
- Store and process raw data on the cloud.
- Support product design features and product development strategies.
- Project management and results expectation management with group leaders and company management.

### Experience

- Development and deployment of data intensive webapp products
- Strong back-end skills (REST, GraphQL, PostgreSQL)
- AWS (IoT core, Dynamo DB, Aurora / EC2, S3)
- Programming in Node.js and Python
- Ideally a background in ML/DL approaches

### Professional Competencies

You have the ability to structure yourself and get the inputs and competencies needed to thrive in your activity. You are able to explore experimental data and generate meaningful results in a systematic way in order to push the product development and support the sales team. You will strongly cooperate with a neuroscientist and a test engineer by creating EEG data sets which are processed and interpreted. This requires an interdisciplinary affinity for both human physiology and algorithm development.

### Mindset

You will be the expert in your field with the freedom and responsibility to make your own decisions aligned with the company's vision. We work very well with people embracing opportunities and building their own team and structure to drive the company's success. We will care for you and your happiness at IDUN and we will listen to your inputs. Please read our company values [on our website](#).

**The above job description is a guide to the work you may be required to undertake but does not form part of your contract of employment and may change from time to time to reflect changing circumstances.**