Giacomo Debidda

Professional Summary

Full stack developer with 20 years of coding experience, including 12 professionally. Experienced in Python (10 years), Node.js (8 years), and Clojure (4 years). Particularly skilled in Node.js (~40 packages on npmjs) and Google Cloud Platform. I enjoy giving talks and blogging about the things I am learning or working on.

Work Experience

Full stack developer [March 2020 - present]
Self-employed (remote)
- Implemented workflows and API integrations (e.g. Stripe, HubSpot) to collect billing data from customers, generate electronic invoices for Italian businesses, and send notifications. Deployed on GCP or Cloudflare Workers.
- Performed web performance audits on eCommerce and news websites.
- Open sourced ~40 libraries for frontend (11ty), backend (Hapi.js, Hono.js), databases (SQLite, Firestore), and released them on npmjs.
- Experimented with Clojure/ClojureScript, WebAssembly and Zig.

Software developer [September 2018 - March 2020]
Develer Srl (Campi Bisenzio, Italy)
- Migrated a large Vue.js / Three.js app to React / Three.js / Redux.
- Designed the frontend architecture in order to support new features.
- Implemented REST API endpoints in Python (Flask) and Go (Gorilla).

Software developer [February 2015 - December 2017]
Moticon GmbH (Munich, Germany)
- Implemented backend code for processing sensor data (C, Python) in the company's NW.js app.
- Developed UI components (CoffeeScript, jQuery UI) and charts (D3, SVG, WebGL) capable of displaying sensor data in real-time.
- Designed a machine learning pipeline for a European research project on Parkinson's disease.

Independent researcher [September 2013 - December 2013]
MiE Medical Research Ltd (Leeds, UK)
- Analyzed performance metrics of athletes in R (caret, knitr, ggplot2).
- Improved data quality using signal processing techniques, outlier removal algorithms and bootstrap resampling.
- Provided team training on key topics in Digital Signal Processing.

Clinical Engineering Intern [October 2012 - March 2013]

<u>Meyer Children's Hospital (Florence, Italy)</u>
- Carried out asset inventory management activities and site inspections (operating theaters, surgery units, medical laboratories, etc).
- Implemented a software solution to help the technical department in tracking medical devices throughout the hospital.
- Supported the hospital in achieving Good Manufacturing Practices accreditation (technical standards ISO 14644 and ISO 14698).

Education

Certifications
- [Professional Data Engineer (Google Cloud Platform)](#)
- [Associate Cloud Engineer (Google Cloud Platform)](#)
- [Google Cybersecurity Certificate](#)
- [dlt Advanced ELT Specialist](#)

Academia
- Master After Master in Clinical Engineering - Università di Firenze
- MSc in Biomedical Engineering (informatics curriculum) - Università di Pisa
- BSc in Biomedical Engineering (informatics curriculum) - Università di Pisa

Continuous Learning
- [Architecting with Google Kubernetes Engine](#)
- [Building Resilient Streaming Analytics Systems on Google Cloud](#)
- [Data Engineering, Big Data, and Machine Learning on GCP](#)
- [Enterprise Database Migration](#)
- [Google Cloud Database Engineer Specialization](#)
- [Logging and Monitoring in Google Cloud](#)
- [Modernizing Data Lakes and Data Warehouses with Google Cloud](#)
- [Security in Google Cloud](#)
- [Serverless Data Processing with Dataflow: Develop Pipelines](#)
- [Site Reliability Engineering: Measuring and Managing Reliability](#)

Skills

Web development: [11ty](#), Vue.js, React, Re-frame, Fulcro, Web Components, D3.js, [WebGL](#), Next.js, [Hapi.js](#), Fastify, Cloudflare Workers, Hono, Flask, FastAPI.
Databases: SQLite, DuckDB, PostgreSQL, MySQL, MongoDB, Firestore, BigQuery.
Data engineering: dlt, dbt, Pandas, Apache Beam, Dagster.
Cloud: [GCP](#), AWS, Cloudflare, Fly.io.
DevOps: Pulumi, systemd.
Operating systems & containers: Linux (Xubuntu, [NixOS](#)), Docker.
APIs: Stripe, HubSpot, Twilio, Reddit, LinkedIn, Cloudinary.
Other: GraalVM, WebAssembly, [RISC-V](#).

Hobbies

I am very much into surfskating and inline skating. I like to alternate between the two. I also go to the gym a few times a week, mostly for weight training.