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Recent jobs

Principal Software Engineer at CARTO since 2015
I've worked as an individual contributor in various teams (data services, core technology, data engineering, backend APIs) leading projects and developing geospatial software in languages like Typescript, Python, Ruby, C/C++, multiple SQL dialects (Postgres, BigQuery, Snowflake, Redshift, Databricks, …)

Head of Software Development / IT at EIN 2005-2015
I leaded software development initiatives, mostly related to GIS, in this multi-consultancy company (renewable energies,) We had a small development team of up to 4 people

Some things I've been doing in those jobs

- Researching optimization opportunities (e.g. using raster data for analysis, writing efficient SQL
- Researching and debugging problems reported by users.
- Developing spatial algorithms (e.g. based on H3 and polyfills)
- Planning initiatives (preparing architecture documents and specifications, defining and evaluating the tasks to carry out them).
- Leading the execution of initiatives (coordinating people and tasks involved, making sure deadlines are met)
- Software development in general (coding, debugging, reviewing code, setting up CI/CD, monitoring…).
- Backend development (services running on node, Python, Ruby).
- Core development (libraries and components in JavaScript/Python/C/C++).
- DB development (Integrating spatial analysis functions into scalable distributed data warehouses)
- Front end development! (just a little, recently with React).

What I really love doing

Solving problems, especially when it helps people achieve their goals.

Finding efficient solutions. Bonus points if they involve applications of Math.

Writing code which is clear and maintainable.

Collaborating with smart and nice people

Participating in projects that have an impact in the world.

Understanding how things work, especially when it seems they shouldn't work. (and understanding why things don't work when it seems they should be working).

Digging deep into complex systems (and coming back alive having learnt something).

Music (I suck at it, but I love it)