

Babäk Firoozi Fooladi

Location: Espoo, Uusimaa, Finland

[LinkedIn](#) | [GitHub](#) | [StackOverFlow](#)

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DATA ANALYTICS ENGINEER | GIS DEVELOPER | DATA SCIENTIST

A versatile and proactive problem solver with a strong ability to quickly adapt and learn new skills. I possess a solid foundation in spatial data, GIS, econometrics, statistics, and data science, complemented by expanding expertise in data processing and visualisation. I excel at developing analytical solutions and insights for challenges of varying complexity. I am seeking opportunities to further develop and enhance my skills in data engineering and data science.

TECHNICAL SKILLS

Python: ●●●○○	R: ●●●●○	Julia: ●●○○○	SQL: ●●●○○
AZURE: ●●○○○	Econometric: ●●●●○	Data Viz.: ●●●●●	Spatial data: ●●●●●
PostgreSQL: ●●●○○	SQLite: ●●●○○	DuckDB: ●●●●○	MongoDB: ●●○○○
Data Analysis: ●●●●○	ArcGIS: ●●●○○	QGIS: ●●●●○	Excel: ●●●●○
PowerPoint: ●●●●○	PowerBI: ●●○○○	Tableau: ●●●○○	Git: ●●●●○

EXPERIENCE

DATA ANALYTIC ENGINEERING <i>Self-Employed Apex-Heat</i>	Jan 2025 – Present <i>Self-Employed – Espoo, Finland</i>
<ul style="list-style-type: none">Resolving technical debt.Migrating from Pandas to Polars to improve the efficiency and calculation time.Improving the design pattern, and writing documentations.Adjusting an improving data processing test coverage and testing methods.Optimising the SQL queries to improve response time.	
Ph.D. Candidate <i>Aalto University</i>	Sep 2020 – Present <i>Part-time – Espoo, Finland</i>
<ul style="list-style-type: none">Applying Econometric, ML and data analysis for quantitative research.Modelling and implementing data pipeline to gather and store the research data.Preparing the providing research data for researchers.Processing HTML and PDF files and implementing RAG to extract structured data from the land use plan documents.Providing consultancy, training and lecturing services for data analysis, GIS and research at Aalto university.	
Data Analytics Engineer <i>Qissa kaupunkisuunnitteluanalytiikka Oy</i>	Sep 2020 – Dec 2024 <i>Part-time – Espoo, Finland</i>
<ul style="list-style-type: none">Designing data pipeline to gather data form REST APIs, cleaning, Geo-coding and storing in accordance to the specifications requested by clientsCreating Spatial data dashboard for spatial network analysis back-end. The analysis used HSL, HERE and HSY APIs to gather and process the data and perform network analysis.	
Planning Assistant <i>WSP Finland Oy</i>	Nov 2018 – Jun 2021 <i>Part-time – Helsinki, Finland</i>
<ul style="list-style-type: none">Performing Spatial Data analysis, Processing and storing spatial.Performing network analysis for pedestrian route choice forecast. The analysis was fine tuned to existing situation, and then used to forecast pedestrian flow after urban developmentProviding GIS analysis to transport engineers, landscape designers, urban planners and architects.Programming and producing dynamic 3D model of the cities using ESRI CityEngine	

GIS Operator
University of Tehran

Aug 2015 – May 2016
Part-time, Tehran, Iran

- Gathering, processing and preparing GIS data for urban designers to implement and test new directives for urban design in Tehran City

Chief Operating Officer
Airsa Dorsa Industries

Aug 2011 – Aug 2018
Full-time, Karaj, Iran

- Accounting, cost calculation, financial analysis, human resources and BI
- Provided in house graphic design, CAD and technical solutions for clients.
- Negotiating with the clients regarding their designs, pricing and production.
- Admin duties, supervision duties, high-frequency welding, silk screen printing.

EDUCATION

Aalto University
Doctor of Philosophy in Technology, Real Estate Economics

Espoo, Finland
Sep 2020 - Present

Aalto University
MSc. (Tech.) Urban Studies and Planning in Real Estate Economics

Espoo, Finland
Sep 2018 - Jul 2020

Aalto University
BA. Town Planning

Espoo, Finland
Sep 2011 - Jun 2015

VOLUNTEER WORK

- DataTribe collective moderator, contributor
- Helsinki Data Week volunteer