

Babäk Firoozi Fooladi

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

Location: Espoo, Uusimaa, Finland

Email: contact@babakfi.foo | Mobile: +358 46 521 2019

Data Analytics Engineer | GIS Developer | Data Scientist

Proactive and adaptable problem-solver with a solid foundation in spatial data, econometrics, and data science. Skilled in developing analytical solutions and insights, with hands-on experience in data processing, visualization, databases, and data pipelines. Eager to leverage a self-driven attitude and commitment to quality to take ownership of projects and contribute to team goals.

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.Designed and deployed database in PostgreSQL and DuckDB data lake for research data in our team.Preparing and updating visualisations for lecture and presentation.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.Deploying and maintaining AZURE functions to store real estate data for research.Self-taught programming skills, and further obtained formal education in data science.	
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 developmentPreparing analysis, graphs, maps and data visualisations for stakeholders, projects managers and clients.Providing 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