

# Babäk Firoozi Fooladi

Location: Espoo, Uusimaa, Finland

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

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## Data Analytics Engineer | Data visualisation | Data Scientist

An adaptable and results-driven problem-solver with a solid foundation in IT, software development, customer service, and B2B business. My extensive experience across diverse industries is a direct result of my strong problem-solving skills and an ever-growing desire to learn and grow, allowing me to approach new challenges with a broad perspective and a passion for innovation.

### Soft Skills

Team work:	●●●○○	Self-organised	●●●○○	Project management	●●●●○
Accounting:	●●○○○	Quality control:	●●●●○	Visual communication:	●●●●●

### Technical Skills

Python:	●●●○○	R:	●●●●○	Julia:	●●○○○	SQL:	●●●○○
AZURE:	●●○○○	Econometric:	●●●●○	Data Viz.:	●●●●●	Spatial data:	●●●●●
PostgreSQL:	●●●○○	SQLite:	●●●○○	DuckDB:	●●●●○	MongoDB:	●●○○○
PowerPoint:	●●●●●	Excel:	●●○○○	Outlook:	●●●●○	Word:	●●●●●
Visio:	●●●●○	RAG:	●●○○○	CAG:	●●●○○	Git:	●●●●○

### Experience

<b>DATA ANALYTIC ENGINEERING</b> <i>Self-Employed   Apex-Heat – Startup</i>	Jan 2025 – Present <i>Part-time – Espoo, Finland</i>
<ul style="list-style-type: none"><li>Resolving <b>technical debt</b>.</li><li>Consulting the implementation of <b>Generative AI</b>.</li><li>Migrating from <b>Pandas</b> to <b>Polars</b> to improve the efficiency and calculation time.</li><li>Improving the design pattern, and <b>writing documentations</b>.</li><li>Adjusting an improving data processing test coverage and <b>testing</b> methods.</li><li><b>Optimising</b> the SQL queries to improve response time.</li></ul>	
<b>Ph.D. Candidate</b> <i>Aalto University</i>	Sep 2020 – Dec 2024 <i>Full-time – Espoo, Finland</i>
<ul style="list-style-type: none"><li>Applying Econometric, ML and data analysis for <b>quantitative research</b>.</li><li>Designed and deployed database in PostgreSQL and DuckDB data lake for research data in our team.</li><li>Preparing and updating visualisations for lecture and presentation.</li><li>Performing <b>time-to-event</b> statistical modelling for my research using parametric, semi-parametric and non-parametric models. These models include <b>longitudinal data</b>, <b>repeating event</b>, <b>multi-state</b> and joint models.</li><li>Experienced in preparing datasets for event history analysis.</li><li>Deploying and maintaining <b>AZURE functions</b> to store real estate data for research. Scrapping websites for property advertisements.</li><li>Self-taught programming skills, and further obtained formal education in data science.</li></ul>	
<b>Data Analytics Engineer</b> <i>Qissa kaupunkisuunnitteluanalytiikka Oy – Startup</i>	Sep 2020 – Dec 2024 <i>Part-time – Espoo, Finland</i>
<ul style="list-style-type: none"><li>Designing data pipeline to gather data form REST APIs, cleaning, Geo-coding and storing in accordance to the specifications requested by clients</li><li>Creating 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.</li></ul>	

**Planning Assistant***WSP Finland Oy*

Nov 2018 – Jun 2021  
*Part-time – Helsinki, Finland*

- 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 development
- Preparing 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

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**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

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**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.
- Managing timelines of production, maintenance and order delivery.
- Admin duties, supervision duties, high-frequency welding, silk screen printing.

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**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*

**University of Tehran***BA. Town Planning*

Tehran, Iran  
*Sep 2011 - Jun 2015*

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**Volunteer Work**

- DataTribe collective moderator, contributor
- DataTribe collective speaker: Spatial data analysis, spatial data engineering
- Helsinki Data Week volunteer, contributor