

# Glatzhofer Michael

Software Engineer / Computer Scientist

Last [update](#) September 2023



Born 1982 Salzburg, Austria

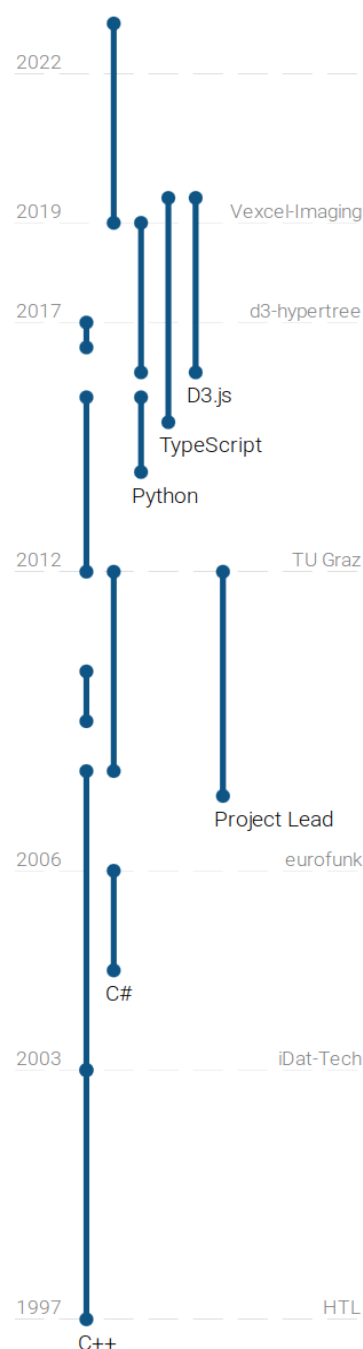
Living in Graz, Austria

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[github](#) • [linkedin](#) • [observable](#)

[d3-hypertree demo](#) ★



## Experience

### *Vexcel-Imaging* Graz, Austria

2019 – 2022

Software Engineer

C#/.Net software development in the field of distributed computing for aerial image processing.

Development, performance optimisation, and maintenance of a proprietary distributed processing system for large cluster environments. Windows Server, C#, .Net

### *d3-hypertree* [Open Source Project](#)

2018 – 2020

Freelancer

Implementation of extensions. Information visualization consulting. Data processing pipeline consulting. D3.js, Node.js

2017 – 2021

Founder, Maintainer

Open source web component for hyperbolic tree visualizations

### *eurofunk Kappacher* St. Johann i.Pg, Austria

Developing server processes and integrating third-party systems into control centers in the fields of public safety and industry. Mostly multithreaded processes written in C# and/or C++.

Later project lead and software architect, the teams consisted of three to ten people, depending on phases of the project.

2008 – 2012

System Architect, Project Lead

System architect and project lead for migration from C++ to C#/.Net. Evaluation of new technologies, middleware architecture, service infrastructure architecture, data access layer. Performance optimization

2010

System Architect

Integration of periphery systems like surveillance system, fire detectors, and other alert sources to command center software for Frankfurt Airport Terminal 1. Protocol specifications, system architecture, technical communication with third-party suppliers

2007 – 2012

System Architect, Project Lead

Designing a new mobile device system (FMS) capable of multiple transport layers like TETRA, legacy radio systems, and IP network. Protocol specification and training of third-party device suppliers

2006 – 2007

Software Engineer

Implementation of interface services for peripheral systems like surveillance systems, security alarm systems for police, fire departments, ambulance, airports and industry

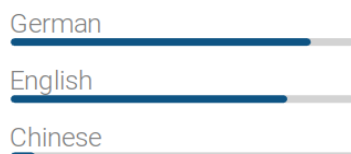
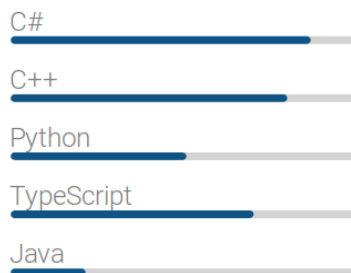
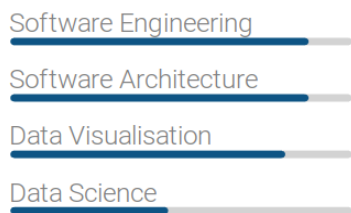
### *iDat-Tech*

2003 – 2006

Salzburg, Austria

Software Engineer, Co-Founder

Embedded programming and programming close to hardware, mostly for customers in the automation industry. Process visualizations



## Education

2016 – 2019	M.Sc. University of Technology Graz, not completed Knowledge Technologies Multimedia Information Systems
2012 – 2016	B.Sc. University of Technology Graz Computer Science
1997 – 2002	HTL Braunau Telecommunications Engineering

## Skills

C#  
C++  
Python  
TypeScript  
Java

Agile Development  
Kanban  
Scrum

Distributed Systems  
Concurrent Programming  
Network Protocol Design  
REST  
SOA  
MOM  
RPC  
Design Patterns  
Performance Optimization  
Modularisation

Information Visualization  
D3.js  
Node.js  
Webpack

Machine Learning  
SciPy  
Pandas

## Soft Skills

Teamwork  
Leadership  
Active Listening  
Communication  
Intercultural Communication

## Languages

German  
English Fluent  
Chinese A1