

Angelo Breuer

INDEPENDENT SOFTWARE ENGINEERING

.NET backend systems & connected devices

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github.com/angelobreuer | cv.angelobreuer.de

Freelance engineer building backend APIs, deployment infrastructure and device integrations for energy and real-time media products.

Freelance Software Engineer · Self-employed · Mar 2022 – present

01 / ENGAGEMENT

Hosenso GmbH & Co. KG

Apr 2024 - present

Software Engineer

Software and platform development for home-energy management and smart buildings, spanning backend services, deployment infrastructure and device firmware.

- Developed C#/ASP.NET Core update APIs with package compatibility matching, PostgreSQL/EF Core persistence and matching tests.
- Implemented device JWT key generation, persistent email authentication codes and trusted-device expiry and cleanup.
- Built CI pipelines and Helm deployment configurations for .NET services and embedded software builds.
- Developed and maintained Matter, Modbus and OCPP integrations connecting device protocols with the product.
- Developed RP2040 firmware for PWM and digital I/O, added firmware-loading support and worked on the embedded Linux bootloader.

02 / ENGAGEMENT

Piero Infinity Control

2023

Software Engineer / Real-time Media

Developed C#/.NET services with native C++ media components to connect RTSP cameras to WebRTC sessions for PieroControl.

- Implemented audio/video session negotiation and keep-alives, plus SIP call integration, in a Linux-targeted media service.
- Added Basic/Digest authentication handling and automated protocol and authentication tests.

EXPERTISE

Backend development: C# / .NET · ASP.NET Core APIs · PostgreSQL / EF Core · JWT / device authentication
Quality & delivery: Unit & regression tests · Async APIs / reconnection · CI/CD · Kubernetes / Helm
Device integration: Embedded Linux · C / C++ / RP2040 · Matter / Modbus / OCPP · RTSP / WebRTC

LANGUAGES

German: Native | English: B2 | Dutch: B1 | French: B1
Self-assessed proficiency.

03 / OPEN SOURCE

2019 - 2026

Lavalink4NET

Lead contributor

Implemented clustering and reconnection strategies for a .NET audio library; maintained releases and regression tests.

Estimated reach: 250 Discord bots, 165,000 servers and 6.5 million unique users.

200,000+ cumulative downloads of the core NuGet package

- Built node clustering and configurable reconnection with exponential backoff, including tests for reconnect timing.
- Added regression coverage for track encoding and queue behavior; maintained compatibility and NuGet releases.

github.com/lavalink4net/Lavalink4NET

04 / OPEN SOURCE

2021 - 2024

localtunnel.net

Creator

Created a .NET tunnelling client as a CLI and reusable library, with configurable HTTP processing and connection inspection.

135 GitHub stars

- Implemented WebSocket forwarding alongside HTTP tunnelling, so applications can expose persistent connections as well as ordinary requests.
- Handled host-header rewriting, query-string forwarding and TCP keep-alives; exposed request tracing for inspecting connections.

github.com/angelobreuer/localtunnel.net

05 / OPEN SOURCE

2023

MiniSolarEdgeApi

Creator

Built a C# HTTP API exposing photovoltaic production, battery charge and charging status from SolarEdge devices over Modbus.

- Added health checks and configurable endpoints; corrected excessive processor usage in the device polling implementation.

github.com/angelobreuer/MiniSolarEdgeApi

Dates reflect authored contributions. Downloads and stars checked 29 September 2026. Download source: nuget.org/packages/Lavalink4NET.

EDUCATION

Fontys International Business School

Sep 2023 – present

BBA, International Business (in progress). Expected graduation: 2027 (estimated).

Berufskolleg Wirtschaft, Geilenkirchen

2020 – 2023

Allgemeine Hochschulreife, computer science focus

Earlier experience: CSB System AG: internships and part-time work, 2018–2019.

REFERENCE

Angelo is easily one of the brightest software engineers I have ever met. He has helped our company Piero Infinity Control develop key software infrastructure services, always delivering elegant solutions using industry best practices. I highly recommend him to anyone looking for assistance in software development.

Samir Zattar · CTO of Piero Infinity Control

Original testimonial: angelobreuer.de/#testimonials