Saulius Beconis

Backend Engineer · Python, APIs, payments

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Python backend engineer who builds and runs services alone: API design, payments, deploys, docs and alerting. My API for AI agents, AxonGate, has been live for about 200 days and has settled 31 paid calls from 11 outside wallets in USDC, with no accounts or API keys involved. I came to software through QA and a biology research lab, and paid the bills with video production from 2021 to 2025.

PROJECTS

AxonGate · pay-per-call web API for AI agents · 2026, live

Python · FastAPI · Redis · x402 · USDC on Base, Polygon, Arbitrum · MCP · Node.js · Railway
api.axongate.one · github.com/sauliusbeconis/AxonGate

- Seven paid endpoints (page read, search, grounded answer, claim check, injection scan and more), charged per call over x402. Failed calls are not settled.
- 31 paid calls from 11 outside wallets settled in USDC since launch. Stripe checkout sits alongside for human buyers.
- Version 1 priced every job against live gas and supplier cost and refused it below a margin floor; version 2 moved to fixed prices with per-product margin tracking.
- MCP server (hosted and as the axongate-mcp npm package), OpenAPI, llms.txt and an agent card: an agent can find, pay for and call it with no human involved.
- Blocks private, loopback and cloud-metadata addresses; scans every fetched page for prompt injection.
- CI runs the whole app in-process with fake Stripe signatures and fake email, plus a secret scanner over tracked files. Railway deploys are health-check gated.

AxonTrade · futures research and execution lab · 2025 – 2026

C++ (Sierra Chart ACSIL) · Python · pandas · NumPy · pytest · Linux
github.com/sauliusbeconis/AxonTrade

- Python research pipeline over ~800,000-row order-flow datasets feeding C++ execution studies; pytest suite, CI, architecture docs and a decision log.
- Nothing reaches the order router without passing walk-forward tests, frozen holdouts in three window geometries, Monte Carlo trade shuffles and slippage stress to 12 ticks.
- Dropped adaptive parameter selection when it failed out-of-sample, wrote up why, and froze fixed candidates instead.
- Routes live orders on a prop-firm evaluation account behind interlocks: account whitelist, symbol and confirmation-text gates, daily loss and profit locks.

Thesis research, Vilnius University · deep learning on rat pup vocalizations · 2019 – present

Python · PyTorch · scikit-learn · librosa · uv · pytest · mypy

- Reproducible pipeline over 588 recording sessions (49 h, 28 animals): hash-verified frozen dataset, every run logs commit, config, split and seed.
- Call detector hand-checked at $\approx$ 0.93 precision and $\approx$ 0.99 recall; a CNN cut age error on held-out litters from 3.42 to 2.38 days.

S. BECONIS Lab · 26 published applied-AI experiments

sbeconis.com/lab

- Invoice extraction with a local vision model: 95.5% straight-through on 400 synthetic invoices. Seven plain-code checks took silent errors on a fresh set from 4.8% to 0%, at 1.3% false rejects.

EXPERIENCE

Generative AI pipelines · freelance · 2023 – 2026

Image and video generation workflows, tooling and training for a private client (ComfyUI, local models, Python).

Videographer and editor · staff and freelance · 2021 – 2025

Studio and location shoots, editing and graphics. Staff videographer at Bored Panda (2022 – 2023) on daily publishing deadlines; video consultant to the National Library of Lithuania (2021 – 2022).

QA Engineer · NSoft · 2020 – 2021

Software and hardware testing, API testing in Postman, regression runs, bug reproduction and reports.

EDUCATION

Biology, Vilnius University · Life Sciences Center · 2016 – 2020

Bachelor's thesis in progress (deep learning on rat ultrasonic vocalizations), defence by June 2027.

SKILLS

Languages Python, SQL, JavaScript / Node.js, C++

Backend FastAPI, REST, OpenAPI, Redis, SQLite, Stripe, x402, MCP, Postman

Infra Linux, Docker, Railway, GitHub Actions, uv, pytest

Spoken Lithuanian (native), English (C2)

OTHER

Chairman, Society of Innovative Medicine (2018 – present): registered association that brings businesses and scientists together on medical research projects.

IT team lead, iGEM Vilnius-Lithuania 2019 (gold medal): HMM profile search over raw MG-RAST metagenomes.