

LUCAS LUCACHAK

Backend Software Engineer

São Paulo, SP, Brazil | Dual Citizenship: Brazilian & Hungarian (EU)

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github.com/lucachak | linkedin.com/in/lucachak-dev | portfolio-vercel-inky.vercel.app

SUMMARY

Backend Developer with a strong foundation in Computer Science and Object-Oriented Programming. Passionate about building resilient APIs, automating complex workflows, and operating entirely within Linux environments. Background includes international academic experience in Hungary (Diaspora Hungaricum Scholar) and a proactive approach to cybersecurity through continuous CTF challenges (Hack The Box, Web Exploitation). Adept at turning complex requirements into structured, clean code using Python and Java ecosystems.

TECHNICAL SKILLS

- **Languages & Frameworks:** Python (Django, FastAPI), Java (Spring Boot), SQL, Bash.
- **Infrastructure & Tools:** Linux (Arch, Pop!_OS), Docker, PostgreSQL, Web Scraping, Git, Neovim.
- **Security & Practices:** REST API Security, OWASP principles, Clean Architecture, Algorithmic Problem Solving.

EXPERIENCE

Freelance Software Developer | *Remote*

September 2022 – Present

- Architected and deployed custom web applications, including lightweight ERP systems and tailored business tools, utilizing Python (Django) and Java (Spring Boot).
- Developed advanced web scrapers and browser automation scripts (e.g., automated account provisioning) using Python, improving data extraction and workflow efficiency for clients.
- Managed end-to-end server deployments and infrastructure setup on platforms like HostGator, handling DNS configurations and database provisioning.
- Conducted code reviews and site optimizations to improve loading times, security, and overall web performance.

Teaching Assistant (Introduction to Programming) | *University of Debrecen*

Spring 2024

- Mentored computer science students in foundational programming concepts, algorithms, and computational logic.
- Assisted in debugging student code, fostering a collaborative learning environment, and explaining complex topics in an accessible manner.

PROJECTS

CourierIQ | *Python, FastAPI, Routing Algorithms*

- Engineered a full routing engine from scratch implementing Simulated Annealing and nearest-neighbor heuristics for route optimization.
- Built dynamic re-optimization and ETA prediction endpoints using FastAPI.

FinGen | *Java, Spring Boot, Docker, PostgreSQL*

- Developed a containerized household financial management REST API.
- Implemented deep code refactoring adhering to SOLID principles and complex relational data modeling.

EDUCATION

BSc in Computer Science (Coursework completed to senior year) |

University of Debrecen, Hungary

Sept 2022 – 2024

(Currently on leave)

- **Award:** Diaspora Hungaricum Scholarship (Full academic merit scholarship).
- **Extracurriculars:** Competitive programming participant (HackerRank logic and algorithm challenges), CTF Player (Hack The Box, picoCTF).

CERTIFICATIONS & CONTINUOUS LEARNING

- **Java Programming I & II (MOOC)** – University of Helsinki
- **Microsoft Azure Cloud Native Bootcamp**
- **Scrum Fundamentals Certified (SFC)**

LANGUAGES

- **Portuguese:** Native
- **English:** Fluent (Lived and worked in Ireland)
- **Hungarian:** Intermediate
- **Russian:** Basic