February 2025

Nicolas Wilkinson

Born 28.09.2001

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PROFILE

Student in Service Science Management and Engineering program (SSME), an interdisciplinary course focused on IT Service systems at the University of Geneva. I am passionate about new technologies, particularly AI and Finance, and I am looking for an internship in software development or data analysis to apply my technical skills and add value to your business. I combine strong collaboration skills with the ability to work independently, as proven by academic and extracurricular projects.

EDUCATION

2024 - 2027 (Forecast) Bachelor in Service Science Management and Engineering, University of Geneva
IT and service management curriculum focused on practical projects. Classes include programming & systems, data & web, as well as classes in economics, marketing, and statistics.

2023 - 2024 Python Programmer Certificate, ifage Geneva
6-month intensive training focused on software development, networks, and databases. Grade: 6.0 / 6.0

2020 - 2022 Bachelor in Management (HEC), University of Lausanne (UNIL) (not completed)
Acquired fundamentals in political economy, financial accounting, and business law, complementary to my current curriculum. Subsequent reorientation towards IT management

2011 - 2020 Baccalaureate (with mention), Lycée Privé Rodolphe Töpffer
Scientific baccalaureate with specialization in Mathematics
1st place at sports days (Athletics) for 4 consecutive years

TECHNICAL SKILLS

Programming Languages: Python (Certified), SQL, Kotlin, Java, JavaScript, C, C++, C#, TypeScript, PHP, R, Shell/Bash, Scala

Databases: MySQL, PostgreSQL, Oracle

Web & Frameworks: React.js, Node.js, Django, Flask, jQuery, WordPress, Streamlit, XML, JSON, CSV, HTML5, CSS3

AI & Data: RAG engine (Retrieval-Augmented Generation), Embeddings, Scikit-learn, Ollama (Local LLM)

Hardware & IoT: Raspberry Pi, Arduino, SDR (Radio), PC/Rig Assembly, Electronic sensors

Modeling & 3D: Blender (Modeling), Ultimaker Cura (Slicing/3D Printing)

Tools & OS: Git/GitHub/GitLab, Docker, Jira, Visual Studio Code, IntelliJ IDEA, Eclipse, Android Studio, Unreal Engine

OS: Windows, Linux, MacOS

Others: Microsoft Office 365, Excel, Word, PowerPoint, Photoshop, Figma (Prototyping), Canva

PROJECTS

Academics:

JION.ch - AI Job Assistant (Python/Streamlit): Development of a job offer aggregation application. Implementation of a full RAG pipeline: Scraping (BeautifulSoup), offer vectorization (SentenceTransformers), and automatic generation of cover letters via Ollama/LLM.

February 2025
Podcast & Media (RTS Collaboration): Conception and production of a podcast in partnership with Radio Télévision Suisse (RTS). Technical (audio) and editorial management, and teamwork within a cross-disciplinary university framework.

Hackathon Project - "PolyPitch" (AI & Web): Co-developed an inclusive, real-time multilingual pitching platform to break language barriers. Integrated Deepgram (Speech-to-Text) and DeepL APIs for live transcription and translation, and designed the relational database schema to manage user sessions and summaries.

3D Educational Game - "Trash Target" (Unity/C#): Developed an open-world serious game to raise awareness about waste sorting. Programmed physics-based mechanics (pickup/throw), dynamic difficulty scaling, and a scoring system based on correct recycling using C# scripts and 3D assets.

Mobile App Development - "How Tanky Is My Phone?" (Kotlin): Designed an Android application that gamifies hardware sensor data (accelerometer, gyroscope, magnetometer). Implemented real-time data processing to calculate "damage scores" based on device acceleration and rotation.

Weather Service Mashup (Python/Flask): Engineered a RESTful API middleware aggregating real-time Open Data from MétéoSuisse. Built a Streamlit dashboard visualizing context-aware insights (calculating a "Comfort Index" from raw data) and implemented caching mechanisms for optimization.

Extracurricular:

Mining Rig Construction (Ethereum): Design and complete assembly of a multi-GPU mining station (2021). Power supply management, cooling optimization, and software configuration to maximize profitability.

Home Automation Security System (IoT): Creation of a garage surveillance system based on Raspberry Pi. Integration of a camera, motion sensors, and programming of an automated alarm.

Aeronautical Radio Receiver & 3D Printing: Manufacture of an antenna via 3D modeling and printing. Configuration of a Raspberry Pi with an SDR module to intercept and decode air traffic radio transmissions.

PROFESSIONAL EXPERIENCE

June - Sept. 2023 Temporary Worker (Sales and Logistics), H&M, Esprit, C&A, Decathlon
Diverse responsibilities: Customer advice, store flow management, and technical repair in the workshop (Bike After-Sales Service). Development of versatility and operational efficiency

March - June 2023 Founder, Independent Document Archiving Service
Creation and autonomous management of a digitization and archiving service for law firms and health professionals
Development of entrepreneurial skills, through client prospecting, administrative management, strict compliance with data confidentiality, and methodical organization

July 2022 - March 2023 Military Service (Logistics), Post CH
Responsible for parcel sorting and counter cash management. Developed strong discipline, ability to work under pressure

ADDITIONAL SKILLS & INTERESTS

Languages: English (Mother tongue), French (Native), German (B1).

Eco School Volunteering: Logistical organization of a humanitarian collection for North Africa.

Hobbies: Mountain sports (mountain biking, skiing, hiking, trail running) and the piano