



Valentin THOURON

CO-FOUNDER · CTO

CONTACT

EMAIL
alkan.capital@gmail.com

LINKEDIN
linkedin.com/in/valentin-th

LOCATION
Dubai, United Arab Emirates

SKILLS

Languages

Python C OCaml Go C++
Erlang

Domains

API AI / LLM
Software architecture Backend
Web3 / blockchain
Low-level systems
Reverse engineering
Cybersecurity
Algorithmic trading Low latency

Tools & technologies

Linux / Unix Docker
PostgreSQL Redis RabbitMQ
InfluxDB Grafana Git
Claude AI agents OpenClaw

LANGUAGES

French Native
English Fluent

Profile

00

Software engineer and architect, **10 years of experience designing and operating complete systems**: architecture, backend development, integrations and production deployment. Comfortable across varied stacks and demanding environments, from scoping to implementation, whether building projects from the ground up or reinforcing an existing team. This versatility rests on deep expertise: APIs, low-latency trading infrastructure, Web3 / blockchain, applied AI (LLMs, agents), low-level systems and reverse engineering.

Professional experience

01

- TAU Digital Assets** Nov. 2024 – Present
Co-founder & CTO · Dubai, UAE
 - Design, architecture and development of the entire **market-making stack**.
 - Development and maintenance of **robust, low-latency systems**: CEX/DEX liquidity, automated order-book management, inventory risk controls, analytics pipelines and execution algorithms.
 - Creation and structuring of the **trading desk from the ground up**: processes, alerting, KPIs, operating procedures and 24/7 shift organization.
 - Supervision of trading, quant, DevOps and operations teams; oversight of **wallet and multisig security**, client onboarding and exchange integrations.
 - Definition of the technical roadmap, recruitment and mentoring of talent, upkeep of a secure, scalable and state-of-the-art stack.
- Alkan Capital** Jul. 2022 – Present
Founder · Dubai, UAE
 - Design, development and operation of **proprietary algorithmic trading strategies** deployed on own capital: signal research, backtesting infrastructure, execution logic, real-time risk and inventory management.
 - **Senior technical consulting** in backend, Web3 / blockchain and AI / LLM, from architecture through to implementation.
 - Design and delivery of **LLM-powered products** (agents, retrieval pipelines, workflow automation), turning applied AI into production-grade systems.
- French Ministry of the Armed Forces** Mar. 2016 – Jul. 2022
Software Architect · Software Engineer · Paris
 - Software Architect** Sep. 2019 – Jul. 2022
 - Leadership of an **R&D** project on automated packet-structure inference via taint analysis, with Intel PIN and Valgrind.
 - **Reverse engineering of network protocols**: analysis and understanding of undocumented or proprietary communications.
 - Development of **reverse-engineering and analysis tools**: protocol research, binary inspection and automated investigation workflows.
 - R&D work on an **anonymization solution**.
 - Software Engineer** Sep. 2016 – Sep. 2019
 - R&D work on an **anonymization solution**.
 - Engineer (intern)** Mar. 2016 – Aug. 2016
 - R&D work on an **anonymization solution**.
- EPITECH** Mar. 2017 – Aug. 2018
Functional Programming Instructor · Nancy
 - Design and delivery of **functional-programming courses and labs** for students.

- **Etix Group** Apr. 2014 – Aug. 2014
Embedded & software developer · Luxembourg

 - Development of a **datacenter access-control system**: full-solution architecture and implementation, on Raspberry Pi and Arduino (C, C++, Python; Flask, OpenCV).
 - Contribution to a **public-data collection and aggregation robot** (OSINT): architecture and implementation, in Python, Go and Node.js, with MySQL and Neo4j.
- **Fun RC Toys** Oct. 2013 – Mar. 2014
Embedded developer · Nancy

 - Development of a **fail-safe anomaly-detection module** for drones, with automatic parachute deployment (Crius V2 Pro board, C language); improvement of flight safety and emergency-response mechanisms.
- **Inria** Feb. 2013 – Jul. 2013
Developer · Nancy

 - Development of a **fall-detection system** in a smart apartment (sensors, cameras, robots), in C++ with ROS and TurtleBot.
- **BE Metrics** Aug. 2012 – Nov. 2012
Developer · Nancy

 - Development of a **multimodal biometric sensor simulator** to automate hardware and software testing, in C++ (emulation of Morpho sensors).

Education

02

- **EPITECH, European Institute of Technology** 2011 – 2016
Master's degree in Computer Science
- **University of Kent (United Kingdom)** 2014 – 2015
Master of Science, Advanced Computer Science, Computational Intelligence · **With Distinction**
- **University of Lorraine, Nancy** 2010 – 2011
Musicology and ethnomusicology

Involvement & teaching

03

- 2013 – 2014 **President**, Epitech Nancy Security Association: administration, course and lab creation, events (Nuit du Hack, CTF competitions).
- 2012 – 2014 **Regional assistant**, Epitech: involvement in academic life (teaching, exams, academic activities).
- 2015 – 2016 **Teaching assistant**, Epitech (Nancy).
- 2013 **Security audit**, CPME 54 (formerly CGPME): testing and assessment of partner organizations' exposed information systems.