

CAREER PROFILE

I'm Thibaut Artis, an R&D engineer and Software developer.

Interested in software development, what drives me is resolving programming challenges and being able to deliver software I'm proud of.

EDUCATION

Master in Computer Science

Epitech

2015 - 2020

None

California State University of Long Beach

2018 - 2019

Year abroad in the context of Epitech

EXPERIENCES

R&D Engineer

Varnish Software (Oslo, Norway)

2024 - 2025

- Development on Varnish Cache and Varnish Cache Enterprise
- Implementation of the CONNECT HTTP method
- Implementation of a CBOR API
- Implementation of a Linux jail
- Implementation of a library to create Varnish backends from a configuration file produced by varnish-discovery

Technologies used

- Varnish
- Github
- Confluence
- CBOR
- CircleCI

Languages used

- C
- Shell
- VTC
- VCL

Platforms used

- Linux

R&D Engineer

Actility (Sophia-Antipolis, France)

2023 - 2024

- Integration of SCHC technology on Actility's hardware
- Implementation and energy optimization of a demo application on Actility's hardware

Technologies used

- Varnish
- Github
- Confluence
- CBOR

Languages used

- C
- Python

Platforms used

- Linux
- STM32

R&D Engineer

Acklio (Rennes, BZH, France)

2020 - 2023


- Development of DTLS support in the embedded SDK
- Development of a DTLS proxy server, adding DTLS capabilities to Acklio's cloud solution
- Integration of DTLS capabilities in Acklio's embedded SDK
- Implementation of CoAP support
- Implementation of OSCORE support
- Implementation of a solution to remotely provision SCHC rules
- Refactoring of the build system from Makefile to CMake
- Write SCHC rules to compress IP/UDP/CoAP/ICMP
- Write C unit and functional tests
- Integration of Acklio's embedded SDK on various platform
 - ARM Linux

Thibaut Artis

R&D Engineer, Embedded Developer

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 French

 tibautartis

 cartoush

 Resume PDF

LANGUAGES

French (Native)

English (Professional)

Español (Intermediate)

INTERESTS

Self-hosting

Music

Videogames

Scuba-diving

- AT commands modems
 - Sierra Wireless HL78
 - Thales Cinterion EXS82
- Nordic nRF9160
- Cisco IR1100

Technologies used

- SCHC
- Kubernetes
- AWS
- Gitlab
- Clickup
- Confluence
- Jira
- Chirpstack
- IoTCreators
- LPWANs (LoRaWAN, SigFox, NB-IoT, B-CDMA)
- gRPC
- Ansible
- Docker
- ZephyrOS
- CMake
- Otii
- Wireshark
- CBOR
- OSCORE
- Grafana
- Loki
- Prometheus
- UDP

Languages used

- C
- C++
- Python
- Rust

Platforms used

- Linux
- STM32
- nRF9160
- Thales EXS82
- Sierra wireless HL7800
- Raspberry Pi

Intern

September 2019 - May 2020

Acklio (Rennes, BZH, France)

- Development of an interface between Acklio's SDK and that of Sigfox LPWAN on a B-L072Z-LRWAN1 platform
- Development of the No-Ack fragmentation mode in Acklio's SDK

Intern

March 2018 - September 2018

Thales (Brest, BZH, France)

- Study on the use of Vulkan instead of OpenGL in a Java environment using the LWJGL library

Languages used

- Java
- OpenGL
- Vulkan
- LWJGL

Platforms used

- Windows
- JVM

Intern

September 2016 - December 2016

Epiderm (Rennes, BZH, France)

- Maintenance on Epiderm's backend
- Refactoring of the doctor's UI
- Development of a chat system
- Started the development of Epiderm's native Android application

Technologies used

- Gandi hosting
- Angular
- Ionic
- Slack

Languages used

- Java
- Javascript

Platforms used

- Web
- Android



OPEN SOURCE

Some of the software I have worked is open-source or has been open-sourced.

lab.SCHC SDK - The SCHC library I worked on during my time in Acklio, it has been open-sourced after I left.

Varnish Cache - I have been contributing to Varnish Cache as an employee of Varnish Software.



PUBLICATIONS

- Enabling Extremely Energy-Efficient End-to-End Secure Communications for Smart Metering Internet of Things Applications Using Static Context Header Compression