Toulouse - France • +33 668 666 396

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Cyber Security Architect / Ninja Developer / SecOps

Introduction

Former developer and security enthousiast, I like to deal with projects combining these two skill sets. My experience in development, as well as my curiosity for new technologies, allow me to have a look forward to the future. I put real importance in sharing knowledge and skills within my job environment. Eager for knowledge, I'm always looking for challenges and exploitation of new knowledges.

Career objectives: Cyber Security Architect; Instructor; Technical Expert; DevSecOps; Slasher; Domains: Cyber Security; Big Data; IoT; Blockchain;

Work Experience

Continental Digital Services [Automotive - R&D]

Cyber Security Architect / Ninja Developer / SecOps / PO Product Owner for internal security products.

Toulouse - France

June 2017 -

- Technical leader / Golang guru.
- Cyber risk monitoring services definition (AWS).
- Production platform definition (Data, Services, Products, Operations).
- Security By Design strategy definition.
- Secured communication gateway Connected Cars <-> Cloud. (HTTP, MQTT, CoAP)
- Identification, authorization and accounting platform. (AWS, Go, OIDC / SAML2)
- Privacy proof authentication protocol. (Crypto, ZKP)
- Private blockchain integration. (Etherem, Data Sharing, Licensing)
- Privacy engineering. (Crypto, Go, Java, Scala)
- Hardening guides writeups. (AWS, Docker / K8S)
- Architecture audits and consulting. (Threat Modeling)
- Security code review. (Java / J2EE, NodeJS, Python, Go, Crypto)
- Formation / Awareness. (Go, Crypto, Blockchain)

Sogeti ESEC [Security - ESN] **Toulouse - France** October 2013 - June 2017

Cyber Security Expert / Data Architect / Full Stack Developer / DevOps

- CERT / SOC tooling.
- Incident management bridge Jira / QRadar (Go, Javascript, RethinkDB)
- Automated malware analysis platform for IoC extraction. (Go, RethinkDB, RabbitMQ, Docker, Cuckoo, VirusTotal, Yara, AngularJS 2)
- Threat intelligence platform (Go, RabbitMQ, ElasticSearch, Neo4j, AngularJS)
- Vulnerability monitoring and followup platform. (Go, RabbitMQ, MongoDB, AngularJS)
- Embbeded automated virus detection box for USB devices. (Go, AngularJS, Qt, ZMQ, Docker)
- Microservices: email (composing, sending, signatures), identification / authorization, tokens, licences (Go, gRPC, Consul, Vault, Docker, Rancher)
- Security code review. (Java / J2EE)
- Trainee mentoring.

Infotel [Mainframe - Editor / R&D]

Engineer R&D / Scrum Master

Toulouse - France

January 2010 - October 2013

- Digital Safe platform. (RabbitMQ, Protobuf, Scala/AKKA, Java, Spring, ElasticSearch, AngularJS)
- Identification, authorization and accounting platform. (Java, Spring, JWT, PKI, PKCS#11, HOTP)
- Documentation toolchain. (Git, Jenkins, Maven, Docbook5, XSLT, FOP)
- Code review. (Java, J2EE)
- Applicative maintenance. (ClearCase, Java, Struts2, Eclipse RCP, Z/OS)
- Trainee mentoring.

SCASSI Conseil [Security - ESN / Consulting]

Cyber Security Expert

July 2008 - December 2009

Toulouse - France

- EBIOS method risk analysis tool (SOA, J2EE, .Net)
- Metamodeling for risk modeling applied on software designs (UML)
- Code review (Java/J2EE, C/C++, PHP)
- Reverse engineering (Crackme)
- SoC Analyst
- Instructor for Virtualisation / Firewall & Access controls workshops

Education

IUP ISI Toulouse - France

Master's degree in Computer Science - 2nd year

2008

UML Metamodel; Realtime programming (ADA, C, SCADE); J2EE; Law;

Master's degree in Computer Science - 1st year

2007

UML Modeling; Distributed programming (Java / J2EE, C); Databases; Mathematics; Management / Economy;

License's degree in Computer Science

2006

UML Modeling; Languages (Java / C++ / C / ASM); Databases; Mathematics; Mangement / Economy;

Nice - France **IUT Informatique**

License's degree in Network and System administration

2005

Network administration; System administration (Unix, Windows); Database administration (Oracle); Mathematics; Management / Economy; Law;

Associate's degree in Computer Science

2004

Database; Languages (Java / C++ / C); Network; Mathematics; Management / Law;

Fréjus - France Lycée Albert Camus 2002

High School's degree in Science and Enginnering, option Mathematics

Mathematics; Mecanic; Electronic; Computer Science;

Languages

- Français Langue maternelle
- Anglais Lu, écrit et parlé

Skills

Evaluation scale: [5] "Expertise", [4] "I Do", [3] "I know", [2] "I'm learning" and [1] "Only if really necessarly".

Non-Technicals

Creative Thinking 5; Technology watch 5; Slasher 5; Project Management / Scrum Master 4; Meeting lead 4; Pedagogy / Vulgarisation 4; Scientific publication writeup ³; Public talks ³;

Defensive Programming 5; Security Threat Countermeasures 5; OWASP Top 10 5; SANS Top 25 5; Code audit 4; Cryptography / Cipher 4; Container / Software Hardening ⁴; Threat Modeling (DFD, AT) ⁴; Threat Intelligence ⁴; Cuckoo Sandbox ⁴; Risk Analysis (EBIOS) ³; GDPR ³; Suricata ³; Bro IDS ³; Honeypots (Cowerie / Kippo) 3; Sinkhole 3; QRadar SIEM 3; Splunk 3; ElasticSearch / LogStash / Kibana 3; Reverse Engineering 2; Penetration Testing 2;

Languages

Go ⁵; JavaScript ⁵; Java ⁵; C/C++ ⁴; Rust ⁴; Ruby ⁴; Python ⁴; Scala ³; ASM (x86, ARM7) ³; PHP ³; Elixir ²; Erlang ²;

Data Engineering

Semantic Modeling 5; Data Preparation 5; Data Wrangling 5; Data Scraping 5; Protégé 4; Anonymisation 4; ElasticSearch / LogStash / Kibana 4; Digital signal processing 3; Anomaly detection 3; Statistics 3; Python / Jupyter / Pandas 3; SciKit Learn 3; Machine learning (SVM, PNN, RF, GBM) 3; H2o 3;

FullStack Affinities

Backend Development ⁵; DevOps ⁵; Frontend Development ⁴; UI/UX Desginer ¹;

Backend Framework

Clean Achitecture 5; Microservices Patterns 5; Resilience Patterns 5; RRPC / Protobuf 5; REST / GraphQL 5; NodeJS 4; Express 4; Ruby on Rails 3;

RabbitMQ 5; NATS 5; NSQ 5; ZMQ 5; WebSocket 5; Serverless 5; MQTT / eMQTTd 4; Apache Kafka 4; Amazon IAM / Cognito 4; Amazon EC2 4; Amazon SNS 3; Amazon IoT 3; Amazon API Gateway / Lambda 3; CoAP / DTLS 3;

Docker ⁵; Rancher ⁵; Prometheus ⁵; Consul ⁵; Vault ⁵; Grafana ⁴; GitlabCl ⁴; Kubernetes ⁴; Helm ⁴; Istio / Envoy ⁴; Sentry ⁴; Jenkins ³; Terraform ³; Ansible ²;

Frontend / UX

VueJS / Vuex 4; Apollo 4; HTML5 3; CSS3 / SASS / LESS 3; WebAssembly 3:

Blockchain

General concepts (Proofs, Algorithms, Protocols) 4; Ethereum 4; J.P. Morgan Quorum 3; IBM Hyperledger 3; Parity 3; Smart Contract 2; Solidity 2;

Liens

- [site] http://zenithar.org
- [blog] https://blog.zenithar.org [facebook] https://www.facebook.com/zenithar [github] https://github.com/zenithar [linkedin] https://www.linkedin.com/in/zenithar

- [mastodon] https://mamot.fr/@zenithar
- [twitter] https://twitter.com/zenithar

Miscellaneous

- Musician: Drummer & Saxophonist
- Writer (Blog)
- 3D printing
 Home automation
 World cooking
- Microbrewery
- Home renovations