

THOMAS LEPLUS

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EDUCATION

2003 – 2004 **Université de Montréal, Montréal, Canada**

Master of Science in Computer Science
Laboratory for Applied Research in Computational Linguistics

2000 – 2003 **École Française d'Électronique et d'Informatique (EFREI), Paris, France**

Master Degree in Information Technology
Major in software engineering and project management

Fluent in English, Spanish and French, basic German

- 260/300 at the T.O.E.F.L. (Computer-Based Testing)
- 915/990 at the T.O.E.I.C.
- E.A.B.D. (Euro-American Business Diploma)

INFORMATION SECURITY

Authentication

- Standards: OAuth 2.0, OpenID Connect, SAML 2.0, Multi-factor Authentication (TOTP, U2F, FIDO2)
- Providers: Okta, Ping Identity PingFederate, Oracle Identity Cloud Service (OICS), Keycloak, SecureAuth, AWS Identity and Access Management, Amazon Cognito

Application Security

- Static Application Security Testing (SAST): Black Duck Hub, Veracode Static Analysis, SonarQube, PMD, Find-Bugs/SpotBugs, Checkmarx SAST
- Dynamic Application Security Testing (DAST): Veracode Web Application Scanning (WAS), Qualys Web Application Scanning (WAS)
- Software Composition Analysis (SCA): Sonatype Nexus Lifecycle (Nexus IQ), OWASP Dependency-Check, Checkmarx SCA
- Education Platforms: Checkmarx Codebashing

Infrastructure Security

- Cryptography: symmetric/asymmetric cryptography, public key infrastructure (PKI), hash functions, digital signatures
- Secrets Management: AWS Secret Manager, AWS Certificate Manager, HashiCorp Vault
- Penetration Testing: Burp Suite, Metasploit
- Network Analysis: Nmap, Wireshark
- Threat and Intrusion Detection: Osquery, OSSEC, Amazon GuardDuty
- Firewalls: iptables, Uncomplicated Firewall (Ufw), AWS WAF

Governance, Risk Management and Compliance

- Cloud: AWS Control Tower, AWS Config
- ISO/IEC 27001 certification process

SOFTWARE DEVELOPMENT

Cloud Platforms

Amazon Web Services (AWS), Heroku, Oracle Cloud, Red Hat OpenShift

Infrastructure and Middlewares

NGINX, Apache Web Server, Tomcat, Jetty, JBoss Application Server (EAP), Docker, Kubernetes, Consul, Terraform, Elasticsearch, Logstash, Kibana, Beats, Kafka, Twilio, Slack, IBM MQ, HornetQ, OpenSSL, OpenSSH, OpenVPN, Oracle Database, PostgreSQL, MySQL

Operating Systems

Microsoft Windows, Apple Mac OS X, Linux (Kali, Debian, Ubuntu, Red Hat), FreeBSD

Java (SE and EE)

- Core Technologies: JDBC, RMI, JMS, JNDI, EJB, JPA, JTA, CDI, JAXB, java.util.concurrent
- Frameworks and Platforms: Spring (DI, Boot, Security), Hibernate, Jersey (JAX-RS), Java Web Start, ANTLR
- Others: Instrumentation API, Attach API, Java Debug Interface, JCA (Java Cryptography Architecture)

Other Languages

Python, TypeScript, Go, JavaScript, Bash, SQL, HTML, CSS, C++, PHP, C, Groovy, Perl, XML

EXPERIENCE

<i>November 2023 – this day</i>	ASSOCIATE VICE PRESIDENT OF ENGINEERING <i>Application Security</i> Nasdaq, San Francisco, United States https://www.nasdaq.com
<i>September 2021 – October 2023</i>	SENIOR DIRECTOR OF ENGINEERING <i>Information Security</i> Adenza, San Francisco, United States https://adenza.com
<i>July 2019 – September 2021</i>	DIRECTOR OF ENGINEERING <i>Information Security</i> Calypso, San Francisco, United States https://www.calypso.com
<i>September 2017 – June 2019</i>	INFORMATION SECURITY ARCHITECT <i>Architecture</i> Calypso, San Francisco, United States https://www.calypso.com
<i>January 2007 – August 2017</i>	SOFTWARE DEVELOPMENT ENGINEER <i>Back-Office - Collateral Management</i> Calypso, San Francisco, United States https://www.calypso.com
<i>October 2005 – December 2006</i>	SOFTWARE QUALITY ASSURANCE ENGINEER <i>Back-Office</i> Calypso, Paris, France https://www.calypso.com
<i>March 2005 – June 2005</i>	SOFTWARE DEVELOPMENT ENGINEER <i>Strategic Resource Management</i> American Express Global Corporate Services, Sydney, Australia https://www.americanexpress.com/au/business/
<i>September 2003 – December 2004</i>	RESEARCH AND TEACHING ASSISTANT <i>Applied Research in Computational Linguistics</i> Université de Montréal, Montréal, Canada http://rali.iro.umontreal.ca
<i>April 2002 – August 2002</i>	SOFTWARE DEVELOPMENT ENGINEER <i>Solution de Signature électronique</i> Cryptolog, Paris, France https://www.universign.com

HOBBIES

- Mobile and Embedded Platforms (Arduino, Raspberry Pi, Android...)
- Home Automation
- Photography
- Travel