

# THOMAS LEPLUS

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## EDUCATION

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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

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### Authentication

- Standards: OAuth 2.0, OpenID Connect, SAML 2.0, Multi-factor Authentication (MFA: 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, FindBugs/SpotBugs
- 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

### Infrastructure Security

- Cryptography: symmetric/asymmetric cryptography, public key infrastructure (PKI), hash functions, digital signatures
- Secret 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

ISO/IEC 27001 certification process

## SOFTWARE DEVELOPMENT

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### 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, Microsoft SQL Server, Bind, Dnsmasq, Samba, Postfix

### 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

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

## HOBBIES

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