

# Pierre-Olivier Martel

## System & Network Security Engineer

### Work Objectives

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I have been working for Apple Europe for thirteen months. I started in the development team working on Podcast Producer, and when the project has been integrated into Mac OS X Leopard Server, I developed the web application used to remotely control the solution.

At this time, I was also a last year student at EPITA (School for Computer Science and Advanced Technologies), following a five-year degree program, majoring in System & Network Security. Both of these experiences gave me an understanding in object-oriented development, secure software development, security mechanisms, and complex software architectures. I am now looking for a challenging opportunity as an intern in software engineering.

### Experience

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| <b>Since 2008</b>  | <b>OS Security Engineer at Apple Inc.</b><br>Developing and integrating security mechanisms at the OS level.  |
| <b>2006 - 2007</b> | <b>Software Engineer at Apple Europe Inc.</b><br>Development of external components for the Podcast Producer solution.<br>Deployment and maintenance of a global engagement tracking system for the european System Engineers.<br>Development of migration tools for the Podcast Server existing customer base. |
| <b>2006</b>        | <b>Podcast Server Development team at Apple Europe Inc.</b><br>Administration of back-office servers: 15 Xserves + 1 Xserve RAID + Xsan<br>Development of new client/server components for the solution   |
| <b>2005 - 2006</b> | <b>Network and System Administrator for Euroland Consulting</b><br>Administration of desktop machines and servers in a heterogeneous environment (Windows & GNU/Linux).<br>Deployment of a VPN infrastructure for the consulting team.  |

### Studies

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| <b>2007 - 2008</b> | <b>System &amp; Network Security major in EPITA - Graduation in Sept. 08 with a Five-year degree (equivalent of an American Master of Science)</b> |
| <b>2005 - 2007</b> | <b>Engineering curriculum in EPITA. Strong involvement in the Apple Technologies Laboratory.</b>   |
| <b>2003 - 2005</b> | <b>Undergraduate curriculum in EPITA, leading French engineering school specialized in Computer Science and Advanced Technologies.</b>             |

### Hands-on Projects

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- **Code obfuscation techniques**
- **Operating Systems fundamentals (implementation of a light micro-kernel architecture in C: boot-loader, memory-management, scheduling, IPC)**
- IT Security (risks analysis, incidents response, cryptology, virology, PKI, SSO)
- Vulnerability exploitation (network, host and web-based intrusions)
- Access Control Infrastructure (Using Kerberos, Radius and OpenLDAP)
- Compiler principles (C++ implementation of a compiler for the Tiger language)
- Network programming (implementation of a FTP server)
- UNIX programming (implementation of a POSIX shell, memory allocator)

### Languages

French: Mother tongue  
English: Fluent (TOEIC: 900)

### Development

#### Languages

Objective-C (Cocoa API)  
C, C++ (STL & Boost)  
Java (J2SE, J2EE)  
Ruby, Python, Shell  
PHP, Javascript  
XHTML, XML, CSS

#### Development Tools

Xcode, TextMate, Vim  
CVS, Subversion, Git  
Autotools, Flex, Bison

#### Operating Systems

Mac OS X (Client & Server)  
FreeBSD, OpenBSD  
GNU/Linux  
Microsoft Windows

#### Databases

MySQL, PostgreSQL  
SQLite

#### Administration

Apache, Postfix  
OpenLDAP, Kerberos  
Packet Filter, IPTables

### Interests

#### Association

Vice-President of EpiMac, a french association aiming to promote the Macintosh universe and to teach Cocoa to students

#### Website

<http://www.nembox.org>