

Misha (Michael) Pak

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Birth date: 14-Feb-1967

Marital status: Married + 3

SUMMARY

Approximately 35 years IT and programming experience with emphasis on software development, analysis, problem solving and escalation programming. All within a highly heterogeneous environment of systems.

Code-level problem solving in highly complex customer oriented scenarios, delivering solutions on time.

Extensive skills in determining problems based on scarce and incomplete data creatively using both existing tools and ad-hoc diagnostics.

Extensive familiarity with heterogeneous environments and multi-OS development and maintenance.

High level written communication skills and knowledge presentation abilities.

COMPUTER SKILLS

Languages

- Extensive software development and debugging: predominantly C and to lesser extent Objective-C and C++
- Partial experience with Python and Ruby.

Operating systems:

- Kernel level: macOS, Linux, MS Windows, FreeBSD
Mainly: memory management, networking, interrupt handling and scheduling.
 - Working experience: macOS, Windows, Linux and FreeBSD
 - Extensive knowledge of the TCP/IP stack including internals and implementation details
 - Deep familiarity with the Internet Security field including hacking and anti-hacking techniques, cryptography and secure coding.
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EXPERIENCE

macOS and Linux teams manager Palo Alto Networks Israel

2016-present

- Managing a team of about 11 people, split into two teams, macOS and Linux with an extremely wide variety of expertise
- Overseeing the design and development of the low-level and infrastructural features into the product on both platforms.
- Providing customer-facing support in critical situations, both technical and non-technical.
- Providing technical guidance to junior and less experienced people in the team
- Planning and designing the future roadmap of the product and development of the team

macOS internals developer Palo Alto Networks Israel

2015-2016

- Developed the kernel extension for the Endpoint product for macOS
- Designed and developed the low-level infrastructures for integration with cross-platform modules
- Designed the development and packaging framework on macOS for the product
- Assisted in defining the future roadmap of the product to the Product team

Mac OSX team - Technology leader Check Point Software Technologies, LTD

2010-2015

- Designed and lead development of an innovative product in the area of endpoint security on a Mac OSX platform.
 - Specific development involving kernel drivers, user-level Objective-C/C++ mixed code and integration with 3rd party libraries.
 - Development also involved porting a very large amount of Windows-based code to OSX.
 - Currently working on a new product within the OSX team which integrates with other components of the suite on Windows and Linux systems.
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Escalation Programming – Team Leader
Check Point Software Technologies, LTD

2005-2010

- Managing a team of 3-4 people in a highly dynamic and extremely multi-tasking environment.
- Maintaining the technical level of the team and providing technical advice and assistance to other members of the group
- Coordinating the work of the team between the various parts of R&D and Support organizations
- Assisting Escalation services and Tier 1 and 2 Support with customer service
- Occasional customer on-site visits abroad. Solved highly critical Firewall-1 performance and malfunction issues in a timely manner.

Escalation Programming – Technology Leader
Check Point Software Technologies, LTD

2001-2005

- Found and solved service requests from customers which have been classified as code-level bugs in all of Check Point's line of products.
- Quickly and efficiently determined type of problem based on system statistics, using available tools on UNIX and Windows based system.
- Developed and incorporated a system of automatic core-file analysis tool in Perl on Solaris, Linux and a FreeBSD-based proprietary system.
- Wrote extensions to kernel-level code which were required by customers and other R&D departments.
- Responsible for solving Firewall-1 performance-related issues: determining memory usage issues (both kernel and user-mode levels) and various CPU usage anomalies.
- Analyzing and solving network related issues in all levels, both Firewall-1 related and operating system related.
- Educating the group on UNIX architecture, performance and problem-solving methods and tools.
- Provide UNIX expertise advice to the entire group.

Software Developer – QoS group
Check Point Software Technologies, LTD

1999-2001

- Writing kernel-level code for various Firewall-1 components, including rewriting portions of the core engine for a new architecture.
- Participated in the design and then implemented "DiffServ" support in Floodgate-1 product.
- Providing UNIX advice to the team.

Software Developer – Speaker Identification Group
Verint Systems, INC

1996-1999

- Was part of team which designed and implemented Speaker Identification technology on SGI systems.
- Created and maintained a network of SGI IRIX systems with extensive integration with MS Windows environment.
- Performed assembly-level optimization of time-critical mathematical code.

**Software Developer – Telephony group
Comverse, INC**

1994-1996

- Participated in the development of a Unix-based SS7 signaling module for a voice-messaging system.
Work involved adding C++ modules to a highly complex telephony signaling package to control call initiation, termination and progress in GSM and ISDN environments.
- Developed a scripting environment for automated compilation and code-control on proprietary SVR4 based Motorola UNIX system (88000).

**UNIX System Administrator
Hebrew University of Jerusalem – Computer
Science dept.**

1988-1994

- Maintained the X11 environment and wrote tools for CS department staff.
- Managed a large network of Sun Solaris and Silicon Graphics workstations
- Participated in adding Hebrew support to X11-based TeX tools.

EDUCATION

Hebrew University

1988-1994

Jerusalem

- Mathematics and Computer Science
- Philosophy and Humanities

LANGUAGES

- English, Hebrew, Russian: Fluent
- German: reading and elementary speech (currently studying)