

# DAVID RABKIN

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## WORK EXPERIENCE

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|---|---|
| Essence<br>SigmaDots,<br>Herzliya Pituach<br>2019–current | <b>Senior Software Engineer</b><br>Developed products for IoT security combining embedded technologies, cyber security, and distributed algorithms. <ul style="list-style-type: none"><li>• Designed and implemented P2P distributed messaging protocol based on DHT with authentication and encryption (C, Go, MQTT, CMake, Docker).</li><li>• Developed dynamic firewall configuration and EDR solution (libuv, nanopb).</li></ul>  |
| Safe-T Data,<br>Herzliya Pituach<br>2017–2019             | <b>Senior Software Engineer</b><br>Developed Safe-T Secure Data Access (SDA) product. <ul style="list-style-type: none"><li>• Implemented Layer 7 proxy with deep packet inspection. Supported NTLM, Kerberos, multi-factor authentication (Mono, C#, GNU/Linux, Redis).</li><li>• Managed integration of Safe-T SDA with SecureAuth IdP (Ruby, C, krb5).</li></ul>   |
| Polycom,<br>Petah Tikva<br>2009–2016                      | <b>Senior Software Engineer</b><br>Developed infrastructure and management layers for Polycom's multipoint video conferencing servers (MCU). <ul style="list-style-type: none"><li>• Technical lead for US DoD certification team (JITC). Analyzed JITC requirements, tested and fixed issues. Fixed vulnerabilities in OpenSSL, Apache HTTP Server, Net-SNMP, OpenLDAP, OpenSSH.</li><li>• Designed and implemented a certificate management system (C++, HTTPS, PKI, CA, CRL, OCSP, OpenSSL).</li><li>• Developed Polycom's private MIB backend including complex database for supporting real-time data. The implementation supports secure SNMPv3 (C, C++, mib2c, Net-SNMP).</li><li>• Developed Polycom's private Embedded GNU/Linux distribution (PTXdist, OSELAS.Toolchain, Make).</li></ul> |
| CA XOsoft,<br>Herzliya Pituach<br>2007–2009               | <b>Software Engineer</b><br>Developed high-availability automatic failover and disaster recovery for Microsoft Exchange Server, SQL Server, Oracle DB, and VMware. <ul style="list-style-type: none"><li>• Developed distributed server which provides continuous data protection for databases and file server applications (C++, Windows API).</li></ul>  |
| Emerson<br>Paradigm,<br>Herzliya Pituach<br>2002–2006     | <b>Software Engineer</b><br>Developed geoscience mapping tool which offers visualization, mapping and interpretation of multidisciplinary data. <ul style="list-style-type: none"><li>• Implemented wavelet compression algorithm for visualization of large maps, multiple levels of details (C++, Fortran, Solaris, IRIX, AIX, GNU/Linux).</li><li>• Developed data browsing application, catalog index (CORBA, client–server).</li></ul>   |

## TECHNICAL SKILLS

Languages:	C, C++, Go, Ruby, Unix shell, Python, Fortran
Design Tools:	UML, Design Patterns
Communication:	TCP/IP, DHT, MQTT, JSON, SAML, CORBA
OSs:	Unix, GNU/Linux, Windows

## EDUCATION

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| Tel-Ran Computer Solutions, Rehovot<br>2000–2001 | Intensive 1,100 hours Object Oriented Technology course.                                     |
| Moscow Aviation Institute, Russia<br>1993–1999   | B.Sc. & M.Sc. in Measuring and Control Computer Systems, specialization in Computer Science. |

**LANGUAGES**      Hebrew, English, and Russian.