



ERAN SHMILOVITZ

SENIOR SOFTWARE ENGINEER TECH LEAD

Venice, Florida

469-371-9663

eshmilo27@gmail.com

linkedin.com/in/eran-shmilovitz-b61573

shmilo-in-cloud.com

SUMMARY

With over 20 years of software engineering experience, I specialize in developing and enhancing retail business solutions that support frequent UI and functionality changes, cross-platform compatibility, and payment security compliance. I have multiple certifications in cybersecurity, and cloud computing, as well as a passion for training AI models using generative techniques and my domain knowledge.

SKILLS

Programming Languages

Delphi	XML	Java
C#	HTML	Go
C++	XSL	Dart
Python	JSON	Kotlin
JavaScript	TypeScript	Rust

Technologies

COM, DCOM, ActiveX, MSMQ,
Multi-Threading, Web Services

Methodologies

OOP/D, UML, Design Patterns,
Agile Programming, Client/Server,
N-Tier Model, SOA, Microservices

WORK EXPERIENCE

PNC

2024-04 - Present

Sr. Software Engineer Specialist (Contract)

Contributing to the payment solutions development of Tempus Technologies, a recently acquired company.

Remotasks

2023-12 - Present

Generative AI Trainer (Freelance)

- Training AI models by crafting and answering questions related to software engineering, databases, payments and security.
- Evaluating and ranking responses generated by AI systems.
- Using my domain expertise to assess the factuality and relevance of text produced by AI models.

NCR

2011-11 - 2023-12

Sr. Software Engineer Tech Lead

- Contributed to design and implementation of new functionality for the cross-platform Payments Gateway Common Client using modern technology stack.
- Served as NCR Payment Solutions development and technical lead, traveled as needed to customers and assisted developers in the integration of OpenEPS API with their POS software (i.e. Target, R-10 Mobile POS, NCR Aloha, ALDI, Blain Supply, SuperValu).
- Helped design and implement EMV support in OpenEPS client as part of Retalix-NCR Connected Payments SaaS solution for Target.
- Assisted with design and enhanced .NET WCF service to support XML SOAP requests from multiple POS terminals using web service HTTP and process securely payment transactions to authorizing network via Retalix-NCR Connected Payments SaaS solution.

Retalix

1999-10 - 2011-11

Sr. Software Engineer - POS-EFT Development and Product Security SME

- Led group of 4 developers in the C-Store EFT development team and was responsible for design, development, maintenance, payment networks compliancy, and payment application security of POS, payment interfaces, and system services.
- Managed development of Loyalty interface to Excentus via Verifone EPS using TCP/IP communication for BP and EFT interface using TCP/IP and dial-up communications to National Bankcard Services for Gas America.
- Enhanced and certified existing EFT interfaces using UDP, dial-up and TCP/IP communications to Heartland Payment Systems and Allied NexGen/ExxonMobil for The Pantry's CITGO and ExxonMobil stores.
- Designed, implemented, and certified EFT interface using TCP/IP and dial-up communications to RBSLynk for Alon USA. Developed payment interface and Host Simulator using TCP/IP network communication to Postilion S1 for Casey's General Stores.
- Implemented payments interface using TCP/IP and UDP to Paymentech for Irving Oil based on specifications from the authorizing network.
- Worked on a large-scale POS software project (DDS) for Pilot Travel Centers to simplify diesel desk software functionality currently used in client's stores. Participated in meetings with the client to understand and document the functionality of the current system as well as designed and implemented a user-friendly software solution to replace it.
- Created several peripheral interfaces for the POS software (Hypercom multi-lane payment terminals, Verifone PINPads, Biometric Fingerprint Reader, Coin Dispenser, Texas Digital AccuVIEW Order Confirmation Display).
- Created multiple OPOS interfaces to Fiscal Printers for the POS software used at restaurants in IKEA stores in Italy, Poland, and Hungary. Implemented and tested the software on Siemens/Wincor-Nixdorf POS systems with the assistance of their technical support staff and developers.
- Developed direct EFT interface to Wynid Technologies software solutions used at restaurants in IKEA stores in France based on specifications from the authorizing network.
- Worked autonomously from beginning to end on an extensive project for United Dairy Farmers that required modifications to the POS software, development of EFT interface to ExxonMobil via ANDI (Allied Network Dispenser Interface), and development of peripheral interface to PINPad Everest Plus with Speedpass using serial communication. The project required working with

Middleware

OPOS drivers, Equinox-Hypercom FPE, Ingenico RBA, Verifone FA, XPI and CXPI

Communications

Serial (RS232),USB, Dial-up, Network (TCP/IP, UDP, HTTP, SSL/TLS)

Operating System

Windows MacOS
Linux

Database

MS SQL MongoDB DynamoDB
Oracle Elasticsearch

Data Security Standards

PCI-DSS, PABP, PA-DSS

Tools

Embarcadero RAD Studio, Visual Studio, CLion, Android Studio, VSCode, Github and Bitbucket Git Version Control, SourceTree, SmartGit, Jira, AQTime, XMLSpy, JFrog, Confluence, Elasticsearch Kibana, Github Copilot, JetBrains IntelliJ Idea, Swagger, Postman API

technical support staff and developers from both Allied Electronics and Mobil throughout the development, testing, and certification of the software.

SoftQuest Systems

1998-01 - 1999-08

Software Developer

- Started working without any experience in programming but self taught in a very short time by using academic skills, technical books, and practicing diligently.
- Developed and maintained modules of software for bug tracking, change management, and time management of software systems.

EDUCATION

Holon Institute of Technology - Extension of Tel-Aviv University, Israel

1995 - 1999

B.Sc Software Engineering

PATENTS

U.S. Patent for System and methods of real time merchant alert for offline transactions <https://patents.google.com/patent/US20160314449A1/en>

CERTIFICATIONS

- GitHub Copilot
- AWS Certified AI Practitioner
- Oracle Cloud Infrastructure 2024 Generative AI Certified Professional
- AWS Certified Cloud Practitioner
- XM Cyber Exposure Management Certification
- ISC2 Certified in Cybersecurity (CC)
- M101P MongoDB for Developers