

Anat Miller

SENIOR SOFTWARE ENGINEER

Details

Ramat Gan

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Skills

Embedded system development

Python

SaaS

Back-end web development

Docker

Linux

SQL

Windows

Object-Oriented Programming
(OOP)

Websocket (Async)

REST API

Docker/Containerization

MultiCore

Mongo DB

Amazon AWS cloud

GCP

Azure

TCP/IP

MySQL

Networking

Profile

Accomplished **Python Senior Software Engineer** with over **15** years of experience. I have a proven track record in the **AI industry**, specializing in building **high-performance, scalable** systems and deploying deep learning models. specializing in developing back-end **SaaS** multi-tenant **micro-service** solutions from scratch at high scale . Driven to make a significant impact and always ready to **innovate!**.

Professional Experience

Senior C++/Python backend software engineer, PTC

MARCH 2022 – PRESENT

- Designed, developed, and successfully implemented complex features in C/C++ for software **CAD 2D/3D visualization** tools, enhancing software's capabilities and user experience.
- Played a **pivotal role** in the **high-value** transition of a desktop on-prem application to a web-based **SaaS** model, contributing to the company's growth and market adaptation.
- Participating in the **end-to-end** software development lifecycle, from design to implementation and testing.
- Developing **multi-threaded** backend servers on **Linux** and **Windows**.
- Applied an in-depth understanding of the **Linux** operating system to optimize software solutions and enhance overall system efficiency
- Developing a **scalable backend server** in a multi-tenant environment to support many clients simultaneously.
- Designed, coordinated, and implemented various **cross-functional** and **cross-site** projects with diverse stakeholders.
- Conducting **code reviews** and offering **mentorship** to junior team members.

Software Developer, Intel , Tel Aviv

JANUARY 2018 – MARCH 2022

- Design and implementation of robust automation infrastructure and tools in **Python** and **C/C++**
- Worked on various Linux platforms, demonstrating adaptability.
- Design and development of **optimized** operators commonly used in **deep learning** workloads in C++.
- Experienced in **Docker building** and **deployment**, ensuring a robust and scalable solution.
- Familiar with commonly used neural network **AI frameworks** such as **Pytorch**, **TensoFlow** for **inference and training**.
- Execute, debug, and analyze complex **SW/HW/FW** tests.

Software Developer, Intel Labs

JANUARY 2016 – JANUARY 2018

- Design and implementation of a robust **C/C++** and **Python** automation infrastructure and tools.
- Design and development of embedded unitests for **Intel RealSense 3D cameras**.
- Development on **Windows** and **Linux** platforms.
- Experience working with cloud: **GCP** and **AWS** cloud environments
- Working with **Docker** and **containers**

UDP

Ethernet 802.3

Routing and Switching

C

C++

Centos

PSOS

Git

Jenkins

Jira

Pycharm

Adaptable to dynamic challenge

Performance Optimization.

Experience with Agile
Methodologies

Visual Studio

Mutli-threaded

Languages

Hebrew

English

SW Embedded Networking Engineer, Audio Codes

JANUARY 2013 – JANUARY 2015

- Planned, designed, and developed in **C/C++** on **Linux**.
- Implemented and integrated code into **Microsoft Lync**, enhancing communication capabilities and ensuring compatibility with the Microsoft ecosystem.

Dsp/Software/Algorithm Engineer, Radvision

JANUARY 2011 – JANUARY 2013

- Planned, designed, and developed multimedia applications in **C/C++** on **Linux**.
- **Worked on multi-core and multi-threaded systems** to optimize performance and scalability.
- Implement various video algorithms to enhance the quality and functionality of the media processing capabilities.
- Collaborated in a **real-time embedded** environment, employing **optimizations**.

Real Time Engineer, Teledata Networks

JANUARY 2008 – JANUARY 2011

- Designed and implemented solutions involving various **network** protocols
- Developed efficient code in **C/C++** on both the **Linux** and **Nucleus** operating systems
- Designed and coded **PHY** driver.
- Integrated with diverse hardware devices, including **FPGA**, **SFP**, **I2C**, and **FLASH**.

Real Time Enginner, Axerra Networks

JANUARY 2005 – 2008

- Designed and implemented **network protocols** for **embedded** systems.
- Real-time engineer in the field of **embedded network** traffic.
- Developed and implemented the **Power Quick Motorola 860 processor** using the **PSOS Real-Time** operating system.

Education

B.sc Computer Science, Bar Ilan Univirestity

JANUARY 2004 – JANUARY 2007

Graduate with High honor **GPA:87**

- **Project in Compile Company** : VSTO Outlook Plugin in **C#**;text to speech;Working with SQL server DB.

Military service

Programmer , Gllilot

JULY 1997 – MAY 1999

- Leading a team of developers.
- Designed and developed educational apps and interactive games for various education divisions.