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Amine Kerkeni

PROFILE

Senior software engineer, with an extensive experience in high performance software development for various industries: Semiconductor, Consumer Electronics and Investment banking. Lead and built software projects in multicultural environment.

EXPERIENCE

Instadeep, Tunis — *Head of AI Product*

January 2017 - PRESENT

- Leading a team of data scientists and software engineers to deliver AI centric software products.
- Worked on Generative Adversarial Networks for risk analysis in finance.
- Developed and deployed a ride sharing based traffic simulator.

Chenavari Investment Managers, Tunis — *Software Development Manager*

July 2010 - December 2016

- Built an offshore software development team (12 members) for a London based hedge fund in Tunis.
- Implemented and maintained all in-house software including:
    - Market data extraction pipeline from Bloomberg
    - Distributed market risk evaluation model
    - Book and Records system including database architecture and GUI
    - Automation of various reporting systems: Investor reports, Risk reports and compliance reports.
    - Deployed a wide range of software technologies: C/C++, WPF/C#, Python, Web/Javascript

SagemCom Software & Technology, Tunis — *Embedded Software Project Leader*

May 2008 - June 2010

- Lead a team of software developers specialized in digital TV Set-Top Box.
- Deployed multiple digital TV products in eastern Europe (Macedonia, Russia), including software stack and technical certfication of the product (CEE Certification,…)
- Developed various API and software stacks for Set-Top Box (TR069/TR135, MMI SDK for third party integration, driver level error correction).
- Developed expertise in wide range of technologies in embedded Linux from driver level to application level.

ST Microelectronics, Tunis — *System Level Design Engineer*

September 2003 - April 2008

- Acted as a line manager of a team of 12 developers in a bigger cross site team - 60 engineers in 4 countries.
- Worked on an innovative methodology to accelerate silicon design for System-On-Chip that allows the development of embedded software before having a physical prototype of the chip.
- Worked on the enhancement of the verification process of the ST7100 SoC, one of the leading products in digital TV at the time.

INRIA Rhone-Alpes, Grenoble — *Engineering Internship*

February 2003 - July 2003

- Development of a proxy based on Microsoft DirectX 8 that gets XML description of a set of multimedia devices and adapts the provided multimedia stream to the characteristics of the devices. The tool was based on COM/C++ and MSXML.

EDUCATION

Université Paris-Dauphine/IAE Paris — *Master Of Business Administration*

October 2005 - October 2007, Tunis

The master degree thesis was on financial assessment process of an R&D activity at ST Microelectronics.

Ecole Nationale des Sciences de l'Informatique — *Software Engineering*

September 2000 - July 2003, Tunis

Institut Préparatoire aux Etudes Scientifiques et Techniques

September 1998 - July 2000, Tunis

TEACHING EXPERIENCE

System On Chip co-design methodology for a master degree class at INSAT - Tunis.

Internal SystemC training at ST Microelectronics - Tunis.

SOFTWARE TECHNOLOGIES

C/C++, CUDA, Python, C#, Web, Postgres and NoSql databases, Windows HPC, Linux, Linux drivers, Android.

LANGUAGES

French, English, Arabic: all fluent.