Sergio Sebastiani
Engineering Maintenance Specialist at Alstom

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Summary

With a strong foundation in software development and a background in physics, I specialize in building and maintaining robust web applications, along with comprehensive data management and infrastructure expertise. My skills span frontend and backend development, with a focus on designing and optimizing solutions that meet high standards of performance, security, and scalability. Proficient in Python (Django), PHP (Laravel), .NET, C#, SQL (MySQL, MariaDB, PostgreSQL), JavaScript (Angular), Docker, and Kubernetes, I bring extensive experience in creating scalable applications, custom APIs, and innovative tools. My skill set also includes Data Management and Infrastructure covering data storage and backup strategies, server configuration (Nginx, Apache) and expertise in network architecture design. Throughout my career, I have contributed to enhancing the stability and functionality of maintenance systems, particularly in the railway sector, leveraging my skills to drive continuous improvement. I am now excited to apply my web development, data management, and infrastructure expertise in impactful projects that push boundaries in digital innovation.

Work Experience

Engineering Maintenance Specialist *(September 2019 - Present at Alstom)*

- Software Developer (80%): Improving stability and developing new functionalities of the maintenance control room.
- Service Operations (20%): Analyze data, coordinate operations, and prepare maintenance documentation. Troubleshoot critical issues..

After Sales Engineer *(November 2015 - September 2019 at Alstom)*

- Performe data analysis to evaluate the performance of railway signaling systems, prepare comprehensive reports detailing key metrics and insights and assessed the fulfillment of contractual requirements through in-depth performance analysis.
- Monitored system failures and performed (RAMS) analyses, collaborated on identifying root causes of failures and on implementing corrective measures to enhance system reliability.
- Troubleshooting main issues providing technical solutions and/or best mitigating

strategies (by taking advantage of my experience and/or properly engaging qualified engineers).
- Coordinate after sales activities, assuring on-time material delivery and maintenance operations execution.

Training and Maintenance Documentation Manager *(June 2013 - November 2015 at GE Transportation)*

- During this period I worked in a big multicultural project for Sweden Railways (SL) consisting of a complete signaling system including; track area equipment, the interlocking, the centralized control system and the cab signaling system. I was Responsible for the maintenance documentation preparation and training execution of all the sub-systems involved.

Field Service Engineer *(November 2005 - June 2013 at GE Transportation)*

- Supported engineering during development of new signaling systems: on-site measurements, test rides, data analysis.
- Writing of test&commissioning procedures and coordinated test&commissioning activities.
- Performed and coordinated system monitoring, RAM analysis, identifying failure modes and finding technical solutions.
- Prepared and performed training's.

Fellow *(Febuary 2003 - November 2005 at IFAC-CNR Institute of Applied Physics)*

Scientific Researcher - Applied Optics
- http://proxy.osapublishing.org/oe/fulltext.cfm?uri=oe-13-5-1696&id=82925

Education - Master degree in Physics

(September 1996 - February 2003 at Florence University of Physics)

Key Skills

Data Analysis	*Innovation*	*Railway Signaling*
Service Operations	*Troubleshooting*	*Troubleshooting*
Trainings	*Management*	*Data Science*
Web Applications	*DevOps*	*Full Stack Developer*
Preventive maintenance	*Programming*	*Microservices*

Programming Skills

HTML (Expert)	*Python (Expert)*	*JAVA (Basic)*
PHP (Expert)	*Node.js (Basic)*	*C# (Expert)*
Laravel (Advanced)	*Django (Expert)*	*VB (Basic)*
Javascript (Expert)	*Angular (Expert)*	*Docker (Expert)*
MySql (Expert)	*NIFI (Basic)*	*Kubernetes (Adavanced)*
Postgres (Expert)	*Android(Basic)*	*Git(Expert)*

Visual Studio(Advanced)   *Code(Expert)*
Visual   Studio   *WordPress (Expert)*

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Visual Studio(Advanced)   *Code(Expert)*
Visual   Studio   *WordPress (Expert)*

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