

Full-Stack Software Developer and Analyst (16 months)

There's a New Energy on Board! Our company MHI RJ Aviation Group (MHIRJ) provides comprehensive critical operational, engineering and customer support solutions including maintenance, refurbishment, technical publications, marketing and sales activities for the global regional aircraft industry. Headquartered in Boisbriand, Quebec, and bolstered by an Aerospace Engineering Center, MHIRJ's network of service centers, support offices and parts depots are positioned in important aviation hubs in the U.S., Canada and Germany. A wholly owned subsidiary of Mitsubishi Heavy Industries, Ltd, MHI RJ Aviation Group includes MHI RJ Aviation ULC (Canada), MHI RJ Aviation Inc. (U.S.A.) and MHI RJ Aviation GmbH (Germany).

The Reliability and Cost Analysis Services team is responsible for managing aircraft reliability data, business intelligence systems and aircraft maintenance cost.

In this role you will contribute to leveraging data to create value for the internal and external stakeholders. This will be accomplished through the development, delivery and support of new and existing tools and applications.

Your tasks will include:

- Deliver web applications that provide an overview and detailed information about airline fleets
- Build a tool (or set of tools) on MHIRJ's Business Intelligence platform (MicroStrategy or Python basis tool) that allows for quick and efficient monitoring of the reliability performance of the CRJ100/200/700/900/1000 products.
- Take ownership of customer success by focusing on their needs when we design features, write code, write tests and fix bugs;
- Build your own server-side Python code and make use of open source to create a robust high-performance backend
- Implement responsive front-end using React JS
- Make documentation associated with the tool(s)
- Develop and implement high level algorithms using Machine Learning/Deep Learning
- Identify, manage, analyze, and interpret data to support the creation of meaningful and actionable insights to support the growth of our businesses
- Continually work with data through various parts of the data life cycle (i.e. Build data pipelines, feature engineering, data deep dives, machine learning model development, etc.)
- Update heavy-check non-routine findings and aging analysis for CRJ by using service center data
- Work with other developers through code reviews and design sessions to refine code
- Continuous development and maintenance of existing applications

You will develop the following skills:

- Software Development and Deployment
- Working in a development team
- Cloud architecture, deployment and authentication

The skills you bring:

- Are enrolled in Software Engineering, Computer Engineering, Aerospace Engineering, Mechanical Engineering, Computer Science or a similar engineering program
- Have knowledge in programming languages: Python, JavaScript, C#
- Have knowledge of databases and SQL language (SQL Server, Oracle)
- Preferred: MS Office suite (particularly Excel, Word and PowerPoint) and business intelligence tools (one or more of Power BI, Tableau or MicroStrategy)
- Preferred: Have knowledge of GIT and Cloud Infrastructure and Development (MS Azure, Devops)
- Are an excellent communicator and self-starter. Strong team player. Detail oriented.

Additional details:

- Position located at Mississauga, Ontario – flexible working schedule with expectation to be physically working at the office when required

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